elSBN: 978-1-68108-301-8 ISBN: 978-1-68108-302-5

# SKIN AND PSYCHE

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## Skin and Psyche

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(ISBN) eBook: 978-1-68108-301-8

(ISBN) Print: 978-1-68108-302-5

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First published in 2016.

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#### **FOREWORD**

Psychodermatology is a critically important aspect of dermatological practice because psychological factors significantly affect a large proportion of our patients. It is an entire field, not just one disease, such as psoriasis. As such, there are different areas within psychodermatology. One important area is psychophysiological disorders, whereby emotional stress frequently precipitates or exacerbates real skin condition. This is most often observed in inflammatory conditions, such as psoriasis and eczema, but the influence of stress is also often reported in conditions without observable inflammation, such as vitiligo and alopecia areata. Another important area involves primary psychiatric disorder in which there are no real skin disorders; the lesions are all self-induced. This area includes delusion of parasitosis, neurotic excoriations, trichotillomania, and factitious dermatitis. The third important area is secondary psychiatric disorder where patient suffers from the negative consequence of disfigurement, such as depression, anxiety, and social phobia. Lastly, psychodermatology includes cutaneous sensory disorder where patient experiences distressing symptoms without visible primary skin lesions or diagnosable internal condition.

This book on psychodermatology covers different areas. Moreover, within these areas, there are highly relevant diagnoses such as, skin picking and body dysmorphic disorder, which are discussed in detail in separate chapters. I highly recommend any practitioners of dermatology to familiarize himself/herself with psychodermatology through this clinically useful book that is easily accessible. The material in this book will undoubtedly greatly enhance our care of these patients who are the most unfortunate and miserable sufferers of psychodermatological disorders.

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#### **PREFACE**

Psychodermatology is a part of general dermatology. As dermatologists, we will definitely meet patients with parasite delusions and, neurotic excoriation/artefacts, dysmorphofobia, or stress-worsened eczema.

This area meets several challenges, such as economy and difficulties to assess the outcomes for the patients. At the same time, the area of psychodermatology has a substantial developmental capacity. This goes for patient's clinical treatment as well as for more theoretical research.

Anna Zalewska-Janowska and I first met at an European Society of Dermatovenerology (EADV) conference in Gothenburg, and we decided to, together with experts in the respective fields, form this e-book in order to shed light on this important part of dermatology. Subsequently, we organized a few sessions on the Neurobiology of the Skin at European Society for Dermatological Research (ESDR) Congresses.

This e-book mainly aims at creating an interest for psychodermatology in dermatologists, both hospital based and colleagues working as private practitioners. Important issues dealing with chronic inflammatory diseases, facial dermatoses, artefacts, dysmorphophobia, parasite delusions, and therapeutic steps are dealt with.

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## Skin and Psyche: Biological Aspects

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**Abstract:** The skin has a dense innervation with synapses between nerve endings and many cells. These cells communicate *via* neurotransmitters and their receptors. Thus, the nervous system may influence different skin functions, including immunity. In skin diseases, the equilibrium of these neurotransmitters is disturbed. There are numerous disorders of this neuro-immuno-cutaneous system (NEICS). The present chapter aims at understanding the impact of psyche in inflammatory skin disorders.

Keywords: Itch, Nerve, Neurotransmitters, Pruritus, Psyche, Skin, Stress.

#### INTRODUCTION

Frequent interactions exist between the skin and the psyche. These interactions are understood through the organization of the neuro-immuno-cutaneous system (NEICS) [1, 2], and its interactions [3, 4].

#### INNERVATION OF THE SKIN

The skin is the organ of touch, this being necessary for human homeostasis. The absence of touch may be followed by death, such as reported in congenital pain insensitivity [5]. The skin is densely innervated, with nerve fibers up to its outermost layer [6]. This chapter aims to provide some data to illustrate that nerve endings are not only cellular endings in the skin in order to obtain information and transmit them to the central nervous system (CNS). But sensory and autonomic nerve endings are also involved in numerous interactions within the skin.

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#### **Anatomical Connections**

Skin neurons have contacts with cutaneous cell endings, which contain neuro-secretory vesicles. These contacts may be viewed upon as synapses since the intercellular distance is less than 300 nm and being highly functional [7].

These contacts may be spontaneously produced *in vitro* (Fig. 1).



**Fig. (1).** *In vitro* co-culture of skin and neurons showing spontaneous growth of nerve endings from neurons (left) to the skin (right).

The first contacts between neurons and epidermal cells were described by Merkel [8], Merkel cells (or epidermal neuro-endocrine cells) being in contact with nerve endings [9]. Langerhans [10] also suspected the existence of such connections with Langerhans cells. These cells have then been shown to be in contact with axons *via* their cellular bodies [11, 12] and their dendrites [12]. In the epidermis, there are also contacts between nerve fibers and keratinocytes [13] and, more recently, connections with melanocytes have been reported [14].

In the dermis, there are contacts between nerve fibers and mast cells [15]. Recently dermal dendritic cells have been observed in contact with axons [16]. In contrast, perivascular nerves are found at the interface between the adventitia and

the smooth muscle of the middle tunica layer [17].

#### Neurotransmitters

Among the numerous neurotransmitters (or neuromediators), about thirty are described in human skin (Table 1) [18, 19]. Most are neuropeptides: bradykinin, calcitonin-gene related peptide (CGRP), gastrin-releasing peptide (GRP), neurokinins, neuropeptide Y (NPY), neurotensin, peptide histidine isoleucine (PHI), somatostatin (SOM), substance P, and vasoactive intestinal peptide (VIP). Others are neurohormones (adrenocorticotrophic hormone (ACTH), melanocytestimulating hormone (MSH), and prolactin), or catecholamines, endorphins, enkephalins, or acetylcholine (ACh). Nitric oxide (NO) is a more primitive, ancient skin neurotransmitter [20].

Table 1. Neurotransmitters in the skin.

Neuropeptides/neurohormones	Others
АСТН	ACh
CGRP	Angiotensin
CRH (corticotropin-releasing hormone)	DOPA
Endorphins	Dopamine
Enkephalins	Epinephrine
Galanin	Histamine
GRP	Norepinephrine
MSH	NO
Neurokinin A (NKA)	Serotonin
Neurokinin B (NKB)	
Neurotensin	
NPY	
PHI	
PHM (peptide histidine methionine)	
Prolactin	
PTH (parathyroid hormone)	
SOM	
Substance P	
VIP	

#### **Psoriasis and Stress: A Review**

#### Vera Leibovici<sup>1,\*</sup> and Alan Menter<sup>2</sup>

**Abstract:** Psoriasis is a chronic immune-mediated genetic disease affecting approximately 120 million patients worldwide. Over 40 genes are associated with psoriasis. Common trigger factors include infections, trauma, medications and stress. There is substantial literature describing the link between psychosocial stress and the exacerbation of psoriasis.

We conducted a comprehensive review of the literature regarding pathophysiology, personality traits, quality of life, anxiety, depression, sexual dysfunction, alcohol, smoking and the treatment of psoriasis with respect to stress.

Our understanding of the brain-skin axis may help alleviate the suffering of our psoriatic patient population and shed light on the pathophysiology of psoriasis.

**Keywords:** Anxiety, Depression, Pathophysiology, Personality trait psoriasis, Quality of life, Sexual dysfunction, Stress, Substance abuse, Treatment.

#### INTRODUCTION

Psoriasis is a chronic immune-mediated genetic disease affecting approximately 120 million patients worldwide. Over 40 genes are associated with psoriasis with common trigger factors including infections, trauma, medications and stress.

Stress has been described, as being an important exacerbating factor not only in psoriasis, but in many other dermatological diseases, such as atopic dermatitis,

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acne vulgaris and chronic urticaria. Not all psoriatic patients believe that their disease is affected by stress: those who do are called "stress responders", as opposed to "non-stress responders" [1].

The literature depicts a range of 37%-78% of stress responders in psoriasis [2].

Living with psoriasis, a chronic, disfiguring disease, associated with social stigmata, poor self-esteem, anxiety and depression results in stress [3]. The stress in psoriasis can be generated by the disease itself or be caused by external psychosocial causes, such as bereavement, stress at work, family problems, financial matters, *etc*.

Kimball *et al.* [4] consider that the stress caused by living with psoriasis and psychosocial stress, that exacerbates psoriasis, is a bidirectional interaction that can even become a vicious cycle.

Psychosocial stress plays an important role in the exacerbation of psoriasis [5 - 8]. Gupta *et al.* [5] describe that the stress-responders have more severe psoriasis in the "emotionally charged" body areas, such as scalp, face, neck, forearms, hands and genital areas, while the total percentage of affected body surface does not vary. This is in line with the findings of Zachariae *et al.* [9], who also found that stress responders had more psoriatic lesions on the visible areas of the body rather than non-visible ones, while the total severity score (PASI) was not affected. However, Verhoeven *et al.* [10] endorsed a significant association between stress and severity of psoriasis. Fortune *et al.* [13] described that stress, apart from being a significant exacerbating factor for psoriasis can also affect the duration of treatment in psoriasis, (*e.g.*, stress-responders need more sustained therapies).

#### PATHOPHYSIOLOGY OF THE PSORIASIS- STRESS RELATIONSHIP

The underlying pathophysiological mechanisms by which psychosocial stress exacerbates psoriasis have been reviewed recently by Hunter *et al.* [14].

It can be explained by the link between the hypothalamo-pituitary adrenal (HPA) axis and the sympathetic nervous system (SNS), as well as by the release of nerve-related factors from peripheral sensory nerves. A peripheral HPA axis, which may "calibrate" the stress response of the central system has been found in

the skin by several authors [15 - 18].

The nervous system pathway of the stress-psoriasis association has been suggested by Farber *et al.* and is supported by the fact that psoriasis has a symmetrical distribution and psoriatic lesions have been shown to sometimes resolve in areas of denervation [19, 20].

The nervous and immune systems are closely related and neuropeptides and neurotransmitters serve as a link between the systems. As discussed above, neuropeptides and neurotransmitters are released by nerves innervating the skin and influence mast cells and Langerhans cells located in close anatomical vicinity [21].

Psoriatic plaques in high stress group have increased nerve fiber density, altered content of neuropeptides, including calcitonin gene-related peptide (CGRP), substance P and nerve growth factor [22].

The role of mast cells in psoriasis has been reviewed by Harvima *et al.* [23]. Ark *et al.* [24] described that stress-related neuropeptides and neurotrophins, such as corticotropin-releasing hormone (CRH), substance P, CGRP, and nerve growth factor act also as mast cell secretagogues. The role of mast cells in stress-induced exacerbation of psoriasis has however, yet to be fully elucidated.

The stress-induced exacerbation of psoriasis through the HPA axis and the sympathetic adrenal-medullary system pathways (SAM) results in a defective adrenergic response.

Increased urinary epinephrine and decreased serum cortisol were found in psoriatic patients during stressor exposure, with lower baseline salivary and serum cortisol also found in stress-response psoriatic patients [25].

These results disagree with the findings of Buske-Kirschbaum *et al.* [26] using the dexamethasone suppression test, and Karanikas *et al.* [27] using the corticotropin releasing hormone (CRH) in order to stimulate the HPA axis, found little or no difference in the cortisol response between psoriatic patients and normal controls.

Under conditions of stress, the activation of the sympathetic nervous system may

## Acne Vulgaris: Psychological State

Lucia Tomas-Aragones<sup>2,3,\*</sup> and Servando E. Marron<sup>1,3</sup>

Abstract: Acne is a multifactorial disorder of the pilosebaceous units. Although many forms of acne can affect all age groups, it is most common in adolescence, when it can be prevalent in up to 80% of the population. Acne vulgaris is often considered a minor disorder, however, it is important to appreciate that the condition can result in severe psychological and social disturbances. Healthcare professionals often underestimate the adverse effects of acne and may lack an empathetic attitude towards the emotional suffering of their patients. It is important to remember that although acne is not a lifethreatening disease, it can cause distress and adverse psychosocial consequences such as depression, poor self-esteem, and social phobia. Body dysmorphic disorder and suicide ideation should also be screened for in patients presenting with poor self-esteem and a lack of social interaction. An association between acne and impaired health-related quality of life has also been described. This work aims to highlight the importance of acknowledging the psychological effects of acne and providing patients with effective support. Psychological comorbidities, assessment and treatment options are described.

**Keywords:** Acne vulgaris, Anxiety, Appearance concern, Biopsychosocial model, Body dysmorphic disorder, Body image, Comorbidity, Coping, Emotional distress, Excoriation disorder, Obsessive-compulsive disorder, Psychological assessment, Psychosocial factors, Psychological intervention, Quality of life, Self-esteem, Self-confidence, Social phobia, Stress, Suicide ideation.

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#### **INTRODUCTION**

Although acne is often considered a minor disorder, it is important to appreciate that the condition can result in severe psychological and social disturbances. However, healthcare professionals often underestimate the adverse effects of acne. This work aims to highlight the importance of acknowledging the psychological effects of acne and providing patients with effective support.

#### Acne

Acne is a multifactorial disorder of the pilosebaceous units. Although many forms of acne can affect all age groups, it is most common in adolescence, when it can be prevalent in up to 80% of the population [1].

Acne vulgaris (Fig. 1) is one of the most common and visible skin diseases encountered by dermatologists in patients between 15 and 40 years old in the United States [2]. Although acne has usually been considered as an adolescent condition, research and clinical findings from the last two decades have shown that it is also frequent in adult population.



Fig. (1). Moderate acne vulgaris

Acne is not a life-threatening disease, however, it can cause distress and adverse psychosocial consequences such as depression, poor self-esteem, and social phobia. In their research article, Yang *et al.* [3] highlight that acne is an early onset and chronic skin disease, which may influence mental health throughout lifetime, especially in females. Therefore, acne should not be considered simply as a superficial problem in physical appearance. Screening for psychological comorbidities such as major depression and suicide is highly recommended.

Facial acne has been described as a multifactorial disease regarding its pathophysiology and its impact on daily functioning [4, 5]. It has been associated with impaired health related quality of life (HRQoL), and has even been compared with an impact as negative as that of other life-threating diseases [2, 6]. Some studies have shown that facial acne can have a negative impact on self-image, self-confidence and on the ability to establish social relationships [2, 7]. Due to its visibility, acne has a marked psychosocial impact on both adolescents and adults.

We need to remember that the face is the most conspicuous part of our appearance, and together with speech, the most important elements in communication with others. It is therefore clear that acne on the face is going to affect most youngsters negatively [8].

Health professionals are sometimes dismissive of the psychosocial implications of dermatological disorders and lack an empathetic attitude towards the emotional suffering of their patients [9]. The psychosocial impact of acne has been particularly well-documented in adolescents [10, 12]. Health professionals need to bear in mind that patients who suffer from moderate to severe acne, will probably be having difficulties with body image, self-esteem and social interaction [8, 12].

#### **Psychological Impact of Acne**

The psychological impact of acne usually consists of a two-way interaction: visible acne lesions may induce negative affects, which may in turn exacerbate the acne. Adolescence is the period of highest risk, not only for acne, but also for mood swings. It is important to bear in mind the difference between psychological disorders that are induced or exacerbated by acne, and the psychiatric

## **Body Dysmorphic Disorder – Quick Guide to Diagnosis and Treatment**

#### Diana Radu Djurfeldt\*

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**Abstract:** Body dysmorphic disorder (BDD) is a psychiatric condition with onset in early teens. Incidence and chronicity are about the same as for schizophrenia or obsessive compulsive disorder affecting 1-2% of the population with a chronic progressive course in many cases. A higher prevalence has been noticed among girls. The insight is usually low. Next of kin are often affected by the patients distress and low functioning.

The etiology of BDD is partly explained genetically, partly associated to environmental factors such as abuse or neglect. Neurofunctional imaging and psychological tests reveal an imbalance between global versus local visual processing resulting in high focus on perceiving aberrant details.

Diagnosis of BDD has steadily improved over the last decades with new criteria recently published in the DSM 5. Comorbidity with depression, substance abuse or other anxiety disorders are common and the risk for suicide is high in this group.

Treatment consists of SSRI or clomipramine as first and second line medications. Glutamatergic agents, anticonvulsants and neuroleptic agents are currently studied in BDD. The psychological treatment of choice is cognitive behaviour therapy focusing on exposure and ritual prevention. The effects of treatment, medication, therapy or combined treatments are fairly good.

BDD is a common, severely debilitating disorder with early onset where treatment can improve the symptoms and quality of life. Recognising the diagnosis and providing relevant information give affected patients a fair chance to get qualified help.

**Keywords:** Body dysmorphic disorder, Buspirone, Cognitive behaviour therapy, Dysmorphophobia, Serotonine reuptake inhibitors.

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#### **CASE STUDY**

Lisa just turned 18. She is referred from child- and adolescent psychiatric unit to a specialist unit for OCD-spectrum disorders for further care.

Lisa has a long history of contacts with child psychiatry. Lisa has always been a good student but has missed a lot of schoolwork in high school because of home-sitting. She comes to her first appointment with her parents. Lisa is a quite normal looking girl wearing jeans, a collage jumper a bit too big, has sunglasses and a her hair covering parts of her face. She insists on sitting in a corner turned from the window.

Lisa seems reluctant to be in the doctor's office and most of her story is told by her parents. It appears that Lisa is a happy child who enjoyed playing with other kids. There were no complications during pregnancy or birth and Lisa has not had any injuries or serious diseases. Her problems started in early teens when she became increasingly preoccupied by her weight and body shape as some of her friends. By the age of 15, she developed anorexia and needed to be hospitalized for a period of some weeks. One year later, she was stable in keeping her BMI above 17 and did no longer fulfil the criteria for an eating disorder. Meanwhile she started to be increasingly concerned about her face. Lisa thinks her complexion is too pale and there are hideous red spots all over the face. She is bothered about her high cheekbones, the uneven hairline, the eyebrows and lips also. At the beginning, Lisa used to spend a lot of time scrutinizing her perceived flaws in the mirror; she took photos with her cell phone or looked in all reflecting areas such as car and shops windows to check her defects. Lately though, she rather avoids reflecting areas as the sight she sees is scary and makes her feel really depressed.

Lisa sought help for her spots from many dermatologists. She got some ointments but does not think it helped. She also spends time looking for a cure on internet and talks to other teens bothered about their complexion on blogs and forums. Lisa wants her parents to pay for dermabrasion and would also want to change the shape of the cheek bones and hair line by surgery but the expenses are high.

Lisa engages in time consuming rituals for treating her facial skin. Firstly, she

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used to go up one hour earlier to be in time for school but after some months the time needed for treatment, washing, camouflaging, picking the hair line and eyebrows perfectly increased steadily, so Lisa missed school anyway more and more often. She has not been to school more than a few days this last term as she is severely depressed by the thought of her appearance. She rarely leaves home and when doing so takes a lot of time to put on a thorough make up covering the blemishes, fixing the hair and putting on the right clothing to hide all the defects. The makeup needs to be done in a certain way and is the most time consuming part. It happens now more and more often that Lisa still feels disappointed in spite of the make up being done by all rules, and has to wash it all off and redo the process thoroughly. While out or at school, Lisa can see how others pity her for her horrible looks, which is utmost distressing. She is certain that some of her classmates even cry when they see her. Lisa cannot see how she would ever be able to feel better, not as long as the disgusting details in the face are not corrected surgically or by laser. She spends most of her time now on computer chatting or searching for information and cures. She loses hope and thinks a lot about death as an alternative to her severe suffering but assures you she does not want to harm herself and really wants help with her defects. However, the only interest she has in talking to a psychiatrist is to get a referral to plastic surgery to get help.

During her contact with child- and adolescent psychiatry, Lisa was reluctant to medication. She had regular contact with a therapist who tried to treat her for social phobia. However, Lisa did not think this would help and mostly sat off the sessions with quite low interest. She still does not think psychiatry can help but admits that treating her anorexia earlier actually did work and made her concern about weight go away.

#### **BACKGROUND**

Dysmorphophobia was described already in 1891 by Enrico Morselli as a phobic disorder focusing on fixation on the idea of one's deformity. About a century later, in 1980, the term dysmorphophobia first made its entrance into the American Diagnostic and statistical manual DSM III among somatophorm disorders described as an "atypical" one. In 1987, in the revised version DSM III-R [1], it changes name to Body Dysmorphic Disorder, the term currently in use [2,

## Skin Picking Disorders and Dermatitis Artefacta

### Anthony Bewley<sup>1,2,\*</sup> and Padma Mohandas<sup>1</sup>

**Abstract:** Dermatologists and patients have long known that skin diseases affect the physical and emotional well-being of a person's existence. Conversely, the psychological state of a person can also affect his/her skin. In this chapter, we set out the nature and basis of some of the dermatological conditions linked to obsessive compulsive disorders [SPD and Acne excoriee] and also take a look at Dermatitis Artefacta, a poorly understood factitious disorder. We present the process of evaluation and care of this vulnerable group of patients, whilst also highlighting the importance of a holistic approach in a multidisciplinary setting.

The skin is well placed to be the focus of tension reducing and emotion regulating behaviours [1]. High levels of anxiety, in dissociative and obsessive compulsive states is perhaps one of the most significant influences in conditions such as Skin picking disorders [SPD] and Dermatitis Artefacta [DA]. Anxiety can also exacerbate primary skin disorders such as Acne with the development of Acne excoriee.

We know that psychological, psychiatric and psychosocial stress affect over 30% of dermatological patients. Assessment of these co-morbidities is therefore imperative in the overall clinical evaluation of the patient. Therefore an integrated multidisciplinary team approach to manage this group of patients leads to better outcomes.

**Keywords:** Acne excoriee, Artefactual, Compulsive, Dermatitis artefacta, Dermatology, Dissociation, DSM-5, Excoriation, Multidisciplinary team, Neurotic, Obsessive, Picking, Psychiatric, Psychodermatology, Psychosomatic, Skin.

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#### SKIN PICKING DISORDER

#### **Synonyms**

Psychogenic/Neurotic excoriation, Compulsive or Pathological skin picking, Dermatotillomania.

#### **Key Features**

- Most prevalent in middle aged women (30-50 years).
- Intense desire to pick/rub or scratch real or imagined lesions.
- Sites affected are usually easily accessible such as the face, upper back, extensors of arms and legs, genitalia and buttocks.
- Anxiety and depression are strongly associated co-morbidities.

#### Introduction

As many as one fifth of the general population admit to skin picking that result in tissue disruption. Clinically significant SPD however ranges from 5-8% and is characterised by repetitive and compulsive picking of the skin resulting in tissue damage. Patients feel the urge to disturb the skin and find relief in the activity. Attempts to suppress the urge can cause an increase in psychological tension. The picking may begin inadvertently or manifest in a ritualistic fashion. Certain situations may trigger the picking such as looking into a mirror, being alone or stressed. The picking behaviour may be followed by feelings of gratification, relief or pleasure [2].

Some individuals may engage in more automatic picking, which occurs without full awareness of the patient and devoid of any preceding tension. In such circumstances, there tends to be higher levels of emotional dysregulation. This dissociative component is important to recognise, as these patients need stabilisation and a risk assessment for suicide.

#### **Epidemiology**

The true extent of this disorder is unknown as few studies have been conducted as to the overall incidence of SPD, however, there is an 8% prevalence in the psycho

dermatology setting. Interpretation of these prevalence rates is complicated by the fact that SPD may be a manifestation of other disorders such as Obsessive Compulsive Disorder (OCD) (to remove contaminants), genetic disorders like Prader Willi syndrome and Body Dysmorphic Disorder (BDD). Although the condition can present at any age, the peak ages of presentation seem to be between 30 to 50 years. There is a distinct female preponderance.

#### **Clinical Features**

Lesions may arise from pre-existing skin problems like acne or urticated papules or they may be created *de-novo*. Research conducted by Wilhelm *et al.* [3] showed that the most common sites of involvement were the face (Fig. 1) and back, the "butterfly sign" is a distinctive feature whereby the inability of the patient to reach the central areas of the back results in peripheral skin trauma resembling that of butterfly wings [4]. Many patients use their fingernails to pick or squeeze lesions. A significant number also use implements such as tweezers and needles. Lesions may range in size from a few millimetres to several centimetres. In extreme cases of SPD, the individual may gouge as deep as the muscle and arteries. Morphologies vary from superficial erosions to deep ulceration. Post inflammatory hypo or hyper pigmentation is common. On the scalp, there may be broken hairs or areas of alopecia. Women may sometimes report worsening of symptoms pre-menstrually.

Psychiatrically, these patients are a heterogeneous group most commonly expressing obsessive compulsive traits [5]. In some, picking may be an expression of a generalised anxiety disorder or depression. When stressed or tensed there may be anxious and restless picking at any interruption on the surface of the skin, with the activity frequently occurring at night or when the patient is unoccupied [6]. Psychosocial stressors must therefore be enquired upon when taking the history.

From a psycho dynamic perspective, there are often histories of difficult childhoods with emotional rejection and harsh parenting. Individuals may lack self-confidence and be overly sensitive to criticism. A percentage also have anger management issues which is displaced into self-destructive picking.

## **Understanding the Challenges in Management of Delusional Infestations**

#### Mona Malakouti<sup>1,2</sup> and Jenny Murase<sup>2,3,\*</sup>

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Abstract: Delusional infestation (DI) is a psychodermatologic disorder characterized by the presence of a fixed, false belief that one is infested with living or non-living organisms. Patients with DI also endorse associated abnormal cutaneous symptoms such as crawling, biting or itching. DI can be extremely debilitating, as patients seek treatment and resort to self-injurious behaviors to eliminate fictional pathogens. Thus, patients may present with skin changes secondary to skin picking and excoriations. Patients with DI most often seek the help of dermatologists, because they are unable to appreciate a psychiatric etiology for their disorder; dermatologists are key to establishing both treatment and psychiatric referral for these challenging encounters. Having an informed and optimized approach in handling DI patients is vital, as clinical interactions with these patients could otherwise be unproductive and unpleasant. With good therapeutic rapport and a strong doctor-patient relationship, dermatologists may implement effective treatment with newer, second-generation anti-psychotic medications or pimozide. In this chapter, the clinical presentation, diagnostic and interpersonal approach, as well as the treatment of DI, are reviewed.

**Keywords:** Anti-psychotics, Delusion, Delusional infestation, Delusional parasitosis, Infestation, Parasitosis, Pimozide.

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#### INTRODUCTION

Delusional infestation (DI) is a condition characterized by a fixed, false belief that one is infested with animate or inanimate matter in the absence of any objective evidence [1]. The nomenclature of this condition has changed over time to encompass the evolving definition and presentation of patients with this type of monosymptomatic delusional hypochondriasis. DI was first introduced in the late 1890s as 'acarophobie' [2, 3], and followed by similar '-phobia' ending terms, such as parasitophobia. These terms were considered to be a misnomer given that phobias are on the spectrum of an anxiety rather than delusional disorder. To reflect the delusional aspect of the disorder, delusional parasitosis or delusions of parasitosis have been preferentially used in the last half-century [4]. However, recent literature has recommended a shift of the nomenclature to delusional infestation given that patients may describe non-parasitic infesting pathogens [5, 6].

DI is a relatively well-known psychodermatologic condition that may be one of the most challenging encounters a dermatologist may face. On average, it is estimated that dermatologists will encounter two to three patients every five years, or at the very least one patient in their career [7]. DI patients are more apt to seek the help of a dermatologist rather than a psychiatrist, since they are unable to recognize an underlying psychiatric etiology for their condition. This proves difficult for dermatologists, because without insight to their disease, DI patients often reject effective antipsychotic medications and psychiatric referrals.

Even though the optimal management of these patients would also involve a psychiatrist, dermatologists may face this difficult task alone. To effectively handle these patients, an optimized approach to their care and management are of utmost importance. This chapter aims to summarize salient points regarding the clinical presentation, diagnosis, interpersonal approach, and treatment of patients with DI.

#### **CLINICAL PRESENTATION**

The classical DI patient is frequently a middle-aged to elderly woman with limited social interactions and no prior history of mental illness. Other classical cases may

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involve elderly men or women with comorbid dementia or other organic brain disorder, and regular recreational drugs users [8]. While there is a female predominance observed in those over the age of 50, there is an equal gender distribution in patients younger than 50 years old.

DI patients most classically endorse infestation with a parasite; however, they may also believe other living organisms, such as fungi, bacteria, worms, or other insects, are the infesting agents [9]. In addition to the infestation, patients may describe abnormal sensations such as crawling, biting, or stinging that they attribute to cutaneous pathogens in the absence of any empirical evidence substantiating their presence. The onset of DI is usually insidious and chronic in duration [10], although some patients may have episodic or transient symptoms.

A smaller subset of patients may report infestation with inanimate objects such as filaments, fibers, hairs or other particles, which is known by some as Morgellons disease [11, 12]. Since 2002, much attention has been given to Morgellons disease, with information readily available online and supported by a relatively large community of patients. Followers of Morgellons disease espouse an infectious etiology rather than a psychologic cause for this dermopathy [13]. As a provider, knowing of Morgellons can be helpful, as patients may present with a self-diagnosis of this condition having studied Internet resources.

Occasionally, patients may cohabitate with another person sharing the same delusion of infestation. This phenomenon is known as folie á deux, which can occur in 5 to 15% of cases [14, 15]. Usually one person experiences the delusion first, and induces the delusion in the other [14]. It is most often observed between husband and wife, probably owing to one attempting to show devotion and support for the other. Recovery typically involves and is dependent on treatment of both cohabitants.

DI patients can be very detailed; they may offer particulars regarding the shape, color or movement of these imaginary pathogens, along with the initiating event or perceived cause of the infestation. Frequently, patients endorse transmission from other humans, plants, infested homes and to a lesser extent animals or pets. In many cases, patients also believe their relatives to be infested. Thus, patients

## **Living with Psoriasis:**

## Managing the Life Impact of Psoriasis – Practical Tips to Use in Consultation

#### Christine Bundy<sup>1</sup>, Alexandra Mizara<sup>2</sup> and Sandy R. McBride<sup>2,\*</sup>

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**Abstract:** Psoriasis can affect every aspect of life – relationships, social life, lifestyle and work and is associated with increased levels of depression and anxiety. Understanding the beliefs, behaviours and emotions of people with psoriasis is essential to formulating effective and appropriate management plans with patients.

Psychological factors in people with psoriasis, such as alexithymia, anticipation of harm and stigma together with time constraints in clinic and skin-focused consultations, can lead to distress and life-impact going un-recognised and untreated. There is some evidence that treating distress can have a positive impact on the severity of psoriasis, and that distress in the form of worry is a major determinant of the outcome of treatment.

Screening for quality of life impact and distress in clinic using relevant questionnaires is a useful tool to identify patients in need of further support, and also provides a trigger to initiate discussion. A patient-centred consultation with setting of agendas for patient and clinician is an efficient way of targeting consultations. Questioning style in clinic is key to eliciting relevant responses which guide treatment decisions and inform treatment goals. Setting of patient-derived treatment goals and step-by-step minitargeted approach to reaching the final goal ensures response to treatment is accompanied by improved life-impact.

Communicating measures of distress, quality of life and patient-derived treatment goals to general practitioners provides an educational tool and will raise the standard of care

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for people with psoriasis.

**Keywords:** Alcohol, Alexithymia, Anti-depressant, Anxiety, Beliefs, Cognitive-behaviour-therapy, Consultation, Coping, Depression, Distress, Hypnosis, Life-impact, Lifestyle, Obesity, Psoriasis, Psychology, Shame, Smoking, Stigma, Suicide.

"Each morning, I vacuum my bed. My torture is skin deep: there is no pain, not even itching.... Lusty, though we are loathsome to love. Keensighted, though we hate to look upon ourselves. The name of the disease, spiritually speaking, is Humiliation." John Updike [1].

#### **CASE STUDY**

A 39-year-old man with psoriasis attends a dermatology clinic for the first time. He has had psoriasis since the age of 9 years. His PASI (Psoriasis Area Severity Index) score is 18.9 (severe) and his DLQI (Dermatology Life Quality Index) is 3 (minimal life-impact). The Dermatologist tells him, in her experience, it is unusual for someone with his severity of psoriasis, for it not to have a significant effect on their life. The man starts to cry. He has never been in a relationship. He has no social life. He has been in the same job since leaving school because he is too embarrassed to go to a job interview with psoriasis on his hands and face. He merely exists, as he has done for the last 30 years. He has seen several General Practitioners over the last 30 years, but his distress and the impact of his psoriasis on his life has not been recognised.

The Dermatologist who saw him in clinic was able to determine the major effect this gentleman's psoriasis was having on his life and formulate an appropriate management plan. In the consultation, she used techniques based on an understanding of psychological factors affecting people with psoriasis in order to engage the patient and identify his needs and wishes and plan his care based on managing the whole person not just his skin.

In this Chapter, we share our joint learning about people with psoriasis, and how this has changed our approach to consultations and management planning.

Illustrations are obtained from postcards distributed by the See Psoriasis: Look Deeper collaboration to people with psoriasis. The post cards were entitled 'Dear Psoriasis....' and respondents were asked to complete them either with words or images [2].

#### INTRODUCTION

In order to understand the full impact of psoriasis on an individual's life it is necessary to question the beliefs, emotions and behaviours of the person behind the psoriasis. Focused questioning can uncover the effect their psoriasis may have on work, relationships, social life and well-being and what is important to the patient in terms of treatment. This insight can lead to more appropriate treatment choices, improved adherence to medications and an opportunity to address the wider issues facing the individual. Communicating this understanding to patients demonstrates empathy, optimises adherence and improves satisfaction with care. Furthermore, communicating this information to the Primary Care Physician will model whole person care which can be replicated in future encounters with people with psoriasis.

#### PSYCHOLOGICAL FACTORS IN PSORIASIS

#### **Key Beliefs**

Beliefs and emotions drive human behaviour. Illness and treatment beliefs can explain self-management and, in particular, adherence to treatment. What people believe about (i) the disease name and associated symptoms of psoriasis make up the identity, (ii) what people believe caused psoriasis or the subsequent flares can indicate the accuracy of knowledge people have, (iii) the effects and outcome of psoriasis (consequences) indicates optimism or pessimism about living with the condition, (iv) how long they perceive the duration of psoriasis and its likely trajectory may flag up vulnerability to depression or inaccurate understanding and (v) how much they believe they, or the treatment they are receiving, can control or cure their psoriasis are particularly important signposts to likely coping strategies that may be used (see below) [3, 4].

People learn about psoriasis from a variety of sources, some helpful and accurate,

# Psychological Treatments for Dermatological Conditions

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Abstract: The impact of dermatological conditions on a patient's life is frequently underestimated. Patients with skin conditions experience several physical complaints, including itch, pain and fatigue. Furthermore, in comparison to the general population, patients report a decreased psychological well-being, lowered quality of life and feelings of stigmatization and shame. Psychological treatments are widely used in addition to regular dermatological treatments to improve physical and psychological functioning of patients with chronic skin conditions. These treatments are usually aimed at changing the psychosocial factors that can influence the onset and/or course of skin conditions, such as dysfunctional coping behaviors, itch-scratching problems and stress. There are unimodal interventions in which single treatments are used, for example psychoeducation or relaxation exercises, and multimodal treatments in which a variety of different interventions are applied based on cognitive-behavioral therapy and self-management principles. Furthermore, a distinction can be made between interventions that focus primarily on skin-related psychosocial problems, interventions that focus on itch-scratching problems, and interventions that are focused on psychiatric problems in the dermatological practice. This chapter gives an overview on the psychosocial factors relevant for dermatological conditions, relevant diagnostic methods and the content and scientific evidence of specific psychological treatments in these different categories.

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**Keywords:** Cognitive-behavioral therapy, Dermatological conditions, Habit reversal, Itch-scratching problems, Psychological treatment, Stress management.

#### INTRODUCTION

The impact of skin conditions on a patient's everyday life is frequently underestimated. Although the influence of psychological factors on the skin has been recognized since a long time, systematic research on psychological factors and treatments has only begun in the last decades. Research shows that people with skin conditions experience more physical symptoms, such as itch, pain and fatigue than the general population [1]. Patients additionally report more anxiety, tension and depressive feelings, and experience social restrictions [2 - 4]. Psychological treatments have consequently been regularly proposed as possible added benefit for the regular dermatological treatments. Based on the existing research evidence focusing particularly on highly prevalent chronic skin conditions, this chapter focuses on the psychosocial factors relevant for dermatological conditions and their impact on daily life, relevant diagnostic methods and psychological treatments.

# PREVALENT PROBLEMS IN PATIENTS WITH DERMATOLOGICAL CONDITIONS

Skin conditions are generally characterized by their fluctuating course and they are often accompanied with physical complaints such as itch, desquamation or pain. Research shows that chronic skin conditions, such as psoriasis and eczema, are accompanied by physical, emotional and social problems and can lead to multiple restrictions in everyday life [5]. Patients report decreased psychological well-being and lower quality of life compared to the general population [3, 6, 7]. For 20 to 40 percent of this group, symptoms are so severe that they are considered a risk group for long-term adjustment problems which require further treatment [4]. The decreased psychosocial well-being can in turn negatively affect the skin condition; for example, patients with psoriasis who also have a high level of psychological distress benefit less from treatments such as phototherapy [8].

Patients with chronic skin conditions often state that 'itch is worse than pain'. Accordingly, itch is the most prominent complaint in most skin conditions. More

than half of the patients with chronic skin conditions report to be experiencing symptoms of itch [1, 9]. The definition of itch, 'an unpleasant sensation provoking the desire to scratch', implies the strong correlation between itch and scratching. Frequent scratching can however lead to skin damage which can in turn aggravate skin conditions [9]. In many patients, scratching leads to relief in the short-term, while feelings of helplessness, shame and guilt play a big role in the long-term. Reactions from the environment towards the scratching behavior ('Could you please stop scratching yourself') can increase these feelings and cause irritation and tensions. Many patients especially suffer from itch at night, leading to sleep problems, chronic fatigue, concentration problems and increased irritability during the day. Over time this can lead to increased avoidance of everyday activities and in the longer term to depressive moods [3]. Accordingly, patients with chronic itch report lower psychological and social well-being than the general population [2 - 4]. Besides itch, skin conditions can also be accompanied by pain [1], for example in patients with chronic ulcera. In addition, eczemas or open wounds caused by scratching can also cause painful fissures in the skin.

Patients with chronic skin conditions additionally report more restrictions in social activities, work and leisure than the general population. Multiple factors can play a role in this. Medical treatments of skin conditions are often quite time intensive, for example when an ointment has to be applied to the whole body several times a day. Additionally patients report feeling restricted by the effect of ointments on their clothes and by the smell of certain ointments such as coal tar ointments. Due to the visibility of skin conditions, many patients experience social stigmatization, shame and social anxiety [3, 10, 11]. A study by Ginsburg and Link [12] revealed that about 20 percent of patients with psoriasis experienced being sent away from sports, hairdressers or swimming facilities because of their skin condition. However, the proportion of patients that suffer from 'the experience of stigmatization' is far greater. Indeed, Lu et al. [13] found that about 80 percent of patients with psoriasis and atopic eczema felt stigmatized by others because of their skin disease at least once, 30 percent of which severely. The experience of stigmatization is one of the strongest determinants of perceived restrictions in everyday life [14, 15] and can lead to decreased self-confidence and feelings of shame. These feelings can cause people to isolate themselves and avoid being in

### Psychoanalysis in Psychodermatological Diseases

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**Abstract:** From a psychoanalytical point of view, almost all dermatological disorders can be considered psychodermatological disorders, because psychoanalytical conception of psychosomatics is not based on the absence of an organic aetiology, or on the real somatic condition of the disease. In all of them – either self inflicted or not, delusional or real, chronic or acute - a psychodynamic approach can be made and can turn out useful, depending more on the patient than on the disorder itself.

Psychoanalytic evaluation can contribute to the dermatologic practice at many different levels: a) establishing the level of psychological/psychiatric functioning during the consultation; b) typifying the kind of unconscious conflicts and emotions that the patient expresses through his/her complaints and symptoms; c) detecting the defence mechanisms that the patient uses to cope with reality, with stress and with his disease; d) choosing the treatment taking into account the unconscious preferences and meanings of the prescriptions; and e) giving skills to improve doctor-patient relationship.

What the psychoanalyst hears in the doctor's consulting room gives him the possibility to infer that there are unconscious factors which play a role in the motive and time of consultation, the self-destructive patterns of behaviour that worsen the disease, the kind of complaint or suffering privileged by the patient, the acceptance or rejection of a treatment or a medicine and even the location of the lesions.

**Keywords:** Allergy, Attachment, Doctor-patient relationship, Ego-skin, Emotional expression, Medical psychology, Psoriasis, Psychoanalysis, Psychodermatology, Psychodynamic psychotherapy, Psychosomatics,

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Psychosomatic diseases, Self-injuring, Skin.

#### INTRODUCTION

## The Skin Patients In Session: Some Transference-Counter Transference Events

A dermatologist referred Magdalena to a psychoanalyst because she was not improving of a chronic eczema, with location in various parts of the body but mainly on her face.

At the beginning of the treatment, her speech was centered on physical complaints, mostly itching and edema. She blushed at some interpretations offered by her psychoanalyst. Many times she stands up to fetch moisturiser, ready to use in a small bottle, and puts it on her face to soothe her itching. Once she has done this, she lies back on the couch and continues talking as if there had been no interruption whatsoever.

Peter, a psoriasis patient, always leaves silver scales of epidermis which stand out against the black leather of the couch. Could we term these phenomena "Skin in psychoanalysis" [1]?

The psychoanalyst would probably reply "no". Peter's psoriasis is genetically determined; his skin comes off in small pieces and there is nothing he can do about it. Magdalena, on the other hand, is allergic and itching is the consequence of her skin disease.

However, the psychoanalyst is feeling upset: he must clean the couch before the next patient arrives; he even considers the possibility of getting a cover for it to be used whenever Peter comes to therapy. While he washes his hands he feels he can hardly keep himself from telling Magdalena not to touch her face during the session. He is feeling upset and anxious: he cannot think "in depth". He might even feel itchy!

Might not his feelings be attributed to counter-transference? Do somatic conditions pose a limit to psychoanalysis?

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Peter has an appointment with the dermatologist after his session. While he undresses for the physical exam he leaves a pile of scales on the floor. The dermatologist asks him how he is doing and Peter, pointing to the scales on the floor, replies, "look, there I am".

What Peter sees in his own scales is himself, as if he was another who leaves traces everywhere. This other "presence" is disavowed by his dermatologist and his psychoanalyst, who just hoover the floor, as Peter's wife always does, and put Peter's "other me", which, incidentally, is torn to pieces, in the rubbish bin.

I learned this from a patient with psoriasis who spoke of her divorced mother saying "If I moved in with Dad, Mum would fall to bits", while her skin came off in small pieces.

Another one, usually splits herself: One self is the woman: a woman who wears women's clothes, goes to the hairdresser, and dedicates time to her makeup. The other self is the psoriasis patient: the one who wears "unisex" clothes of light colours, never goes to the hairdresser, and wastes a lot of time moisturizing herself and hiding her body.

"Medical scientific papers claim that one third of the population who consults with a dermatologist suffers from psychological problems and yet, at the same time they claim that cognitive-behavioural therapy is the treatment of choice. Is it that psychoanalysis has no say within this field? Indeed, there are several multidisciplinary societies of psychiatry and dermatology in the United States and in Europe where the voice of psychoanalysis can barely be heard. However, in our present cultural context, where interdisciplinary work is essential and where a piercing or a tattoo grant a feeling of identity to youths whose subjectivity is at risk, the issue of the skin seems to be receiving a lot of attention and we psychoanalysts must bear in mind that Freud used to consider it "the erogenous zone par excellence", and that it was also the entrance and the exit door for many emotions and situations which mark us" [1].

#### WHAT IS PSYCHOANALYSIS?

Since there are many current psychoanalytic schools of thought and different

### **Building a Psychodermatology Clinic**

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**Abstract:** There is a need for a holistic view when treating dermatological patients. Dermatologists believe that psychiatric disorders are substantially less frequent than they actually are in many skin conditions. In many skin conditions the frequency of disorders are underestimated by dermatologists. psychodermatological disorders, particularly depression, could in some cases, be lifesaving. In at least university teaching hospitals, psychodermatology clinics should function on a regular basis. The most natural location of such a clinic is within an ordinary dermatology clinic containing an interdisciplinary team of a dermatologist, psychiatrist, psychologist, social worker and experienced nurse. Instruments used include somatic examination, laboratory tests, and radiology facilities such as magnetic resonance, and neurophysiological examination. Treatment is composed of skin handling, emolliants, hydrocolloid dressings, ultraviolet light therapy, cognitive behavioural therapy, and/or pharmacotherapy using antidepressants or antipsycotics. These psychodermatological clinics, depending on refunding, may not be lucrative from the refunding perspective but they offer integrative patient care and may limit number of hospital admissions and improve the quality of life of these patients, this being the ultimate purpose.

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**Keywords:** Anxiety, Clinic, Depression, Enquiries, Instruments, Laboratory tests, Outcome, Psychodermatology, Research.

#### **BACKGROUND**

#### The Need for a Psychodermatology Clinic

Dermatologists generally have a limited time for consultation by their patients, by tradition the flow of patients being high. In addition, the quality of the consultation from a holistic perspective may be limited, skin lesions being so visual. The skin disease may be worsened by psychological factors such as stress and depression and, on the other hand, the skin disease per se may lead to stress and depression due to influence on quality of life. It is important to identify which patients could receive more benefit from psychiatric intervention.

Dermatologists have a fairly good view about the impact of skin conditions on the quality of their patient's life [1]. On the other hand, in many skin conditions the frequency of psychiatric disorders are underestimated by dermatologists [1, 2]. The prevalence estimates of psychiatric morbidity in dermatological outpatients range from 21 to 43% [2, 3].

Thus, anxiety, depression, body dysmorphic disorder (BDD) are often encountered. Depression in an outpatient dermatology setting has been estimated at having a prevalence of 34% and being comorbid with common skin disorders, including acne, atopic dermatitis, psoriasis, pruritus and urticaria [3]. In the study by Gee *et al.* [3] most physicians thought that they were capable to diagnose psychocutaneous disease, however, very few felt comfortable starting treatment with psychotropics or believed themselves being successful treating such conditions.

A substantial number of dermatologists are lacking training in psychodermatology, thus, many patients with psychocutaneous disorders are left untreated. Many patients are often resistant to psychiatric intervention and when they are adviced to see psychiatry, this often leads to termination of the treatment [3]. Thus, the major responsibility to recognize and treat psychiatric disorders is up to the treating dermatologist.

An added value to treating primary psychiatric disorders is the improvement of associated skin disorders. Accordingly psychiatric disorders due to skin disorders may also require treatment [4].

Assessing degree of stress, depression and anxiety using a simple 0-10 VAS scale before and during treatment can be a rough indicator of treatment progress. In addition, diagnosing the most common psychodermatological disorders, particularly depression, could in some cases, be lifesaving.

#### **Psychodermatology Clinics**

There are several examples of psychodermatology clinics [see, e.g., 5 - 10]. Often the patients are seen by a combined team with a dermatologist/psychiatrist or psychologist. This is of particular importance since patients with primary psychodermatological disorders often do not want to have a psychiatric referral. The need for a psychodermatology multidisciplinary team for patients with dermatitis artefacta and artefactual skin disease from the initial consultation was pointed out by Mohandas et al. [6] at their regional psychodermatology clinic at the Royal London Hospital. With this early contract between the patient and both the dermatologist and psychiatrist, the clinical assessment could then be run over time.

In common for psychodermatology clinics is the difficulty to perform outcome based comparative studies.

A substantial number of patients default follow-up. Thus, most reports from these clinics in a retrospective way describe patients that have been admitted/treated by the clinics.

At the psychodermatology clinic in Singapore [5], the most common diagnosis among patients with primary psychiatric disorders was delusional infestation. 57.9% of the patients were compliant to the prescribed therapies, psychiatric medications or further psychiatric reviews. At the psychodermatology clinic in Manipal, India, the leading primary diagnosis was psoriasis, while the leading primary psychiatric disease was neurotic excoriations [7]. Thirty percent of the patients had stressors at the onset of their disease. At the Hadassah–Hebrew

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