**Case series of an alternative therapy for generalised lichen planus: Four case studies**

**LAWRENCE CHUKWUDI NWABUDIKE**¹, **MAGDALENA MIULESCU**² and **ALIN LAURENTIU TATU**³

¹Department of Outpatient Dermatology, ′N. Paulescu′ National Institute of Diabetes, 023553 Bucharest; ²Department of Morphological and Functional Sciences, Faculty of Medicine and Pharmacy, ′Dunărea de Jos′ University of Galați; ³Medical and Pharmaceutical Research Unit/Competitive, Interdisciplinary Research Integrated Platform, ′Dunărea de Jos′, ReForm-UDJG, Research Centre in the Field of Medical and Pharmaceutical Sciences, Faculty of Medicine, Department of Pharmacy/Pharmacology Sciences, ′Dunărea de Jos′ University of Galați, 800010 Galati, Romania

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**Abstract.** Lichen planus (LP) is an idiopathic, cell-mediated immune disorder, accompanied by itching. Spontaneous remission occurs. Topical and systemic therapies are utilised. Four cases of generalized LP with and without mucosal involvement treated homeopathically are presented. Case 1: A 48-year-old female presented with a 7-month history of generalized itchy rash, which had been diagnosed as LP, treated unsuccessfully with topical steroids and removal of dental fillings. Examination revealed violaceous papules on upper and lower limbs, oral mucosal lesions and an irregular, erythematous, blanching, macular rash on the chest. She received homeopathic *Ignatia amara* at medication dilution factor (MK) potency, weekly dose and went into remission at 3 months. Patient remains in remission. Case 2: A 65-year-old female presented with a 27-year history of generalized LP, which had been unresponsive to topical steroids. Examination showed generalized violaceous papules on upper and lower limbs, oral mucosal lesions and an irregular, erythematous, blanching, macular rash on the chest. She received homeopathic *Aurum metallicum* at MK potency, weekly, and went into remission. She relapsed at 8 months after onset of therapy, following a very stressful incident, but gained remission again with *Aurum metallicum* after 1 month of therapy. She remains in remission. Case 3: A 38-year-old male presented with a 21-year history of generalized LP. Medical history was significant for hepatitis B and asthma. Topical steroid therapy was only partially successful. Examination revealed generalized, violaceous papules, with oral and genital involvement. He received homeopathic *Lycopodium* at MK potency, weekly, and remitted by 2 months. He remains in remission. Case 4: A 41-year-old male presented with a 12-year history of generalized hypertrophic LP, which had responded partially to topical steroids and ultraviolet A therapy. Medical history was significant for reduced sense of smell. Examination revealed generalized, violaceous, hypertrophic papules and nodules. He received homeopathic *Carcinosinum* at MK potency and remitted at 6-months. In its long-standing, generalized form, with mucosal involvement, LP may respond to individualized homeopathy. More research may clarify homeopathy's place in LP therapy.

**Introduction**

Lichen planus (LP) is an idiopathic, cell-mediated immune disorder, accompanied by itching, mucosal lesions and characteristic skin lesions in most cases. The clinical manifestations of LP have been described as the ‘6 Ps’ of LP, namely: Pruritic, purple, polygonal, planar, papules and plaques, encompassing the main manifestations of this disorder (1). Different subtypes of LP are more prevalent in certain populations and sub groups, for example, actinic, hypertrophic, pigmented and childhood variants are more common in African American and darker-skinned populations. Of note, childhood LP has a greater male prevalence, which is unusual for an autoimmune disorder (1).

There is a potential for the development of malignancy in association with mucosal lesions. Spontaneous remission occurs. Topical and systemic therapies are utilized including potent topical steroids, topical calcineurin inhibitors, psoralen and ultraviolet A (PUVA), narrow band UVB, oral corticosteroids and acitretin (2). Since these therapies are not without complications and may be ineffective in some cases, other treatment modalities with potential are welcome. Complementary and alternative therapies have been tried as a therapeutic possibility and as a way of avoiding the side effects of conventional therapies. A study of Ayurvedic medicine, combining herbs
and diet for LP therapy, reported 100% remission rates, although residual post-inflammatory hyperpigmentation and dryness were seen (3).

Homeopathy is a therapeutic system developed by the German physician, Samuel Hahnemann. It is based on the utilization of infinitesimal concentrations (extremely high dilutions) of substances to treat diseases and thus, is free of the side effects associated with conventional therapy. Its exact mechanism of action remains to be elucidated, but homeopathy enjoys increasing popularity with growth rates of 25% per year in India (4) and in the US, homeopathy was one of the most commonly used forms of CAM, used by 2.1% of the population (5).

Four cases of recalcitrant, generalized LP with and without mucosal involvement treated homeopathically are presented. This study was approved by the Ethics Committee of Cabinet Medical Individual (Bucharest, Romania), and a written informed consent was provided by all the patients included in this study.

Case studies

Case 1. A 48-year-old female presented with a 7-month history of generalized LP. Topical corticosteroid treatment and removal of dental fillings did not ameliorate the condition. Examination revealed violaceous papules on upper and lower limbs, oral mucosal lesions and an irregular, erythematous, blanching, macular rash on the chest. She received the homeopathic medicine *Ignatia amara* at MK potency, weekly dosage and went into remission at 3 months. The patient relapsed (after presentation of the abstract of this work), following work-related stress and dental work, at 2.5 years after the last visit. She presented with only oral lesions, which responded to *Ignatia amara* MK (Fig. 1A-F).

Case 2. A 65-year-old female presented with a 27-year history of generalized, LP, which was unresponsive to topical steroids. Examination showed generalized, violaceous papules, with no mucosal involvement. She received homeopathic *Aurum metallicum*, MK potency, weekly dosage, and went into remission. She relapsed at 8 months after onset of therapy, following a stressful incident, but remitted again with repetition of *Aurum metallicum* after 1 month of therapy. She remained in remission for 3 years until the death of her mother, which triggered a relapse for which she received *Aurum metallicum* again. This helped put her into remission once more (Fig. 2A-D).

Case 3. A 38-year-old male presented with a 21-year history of generalized LP. Medical history was significant for hepatitis B and asthma. Topical clobetasol had been tried with only limited success. Examination revealed generalized, violaceous papules, with oral and genital involvement. He received homeopathic *Lycopodium clavatum* at MK potency, weekly dosage, and remitted by 2 months. He remains in remission (Fig. 3A-D).

Case 4. A 41-year-old male presented with a 12-year history of itchy rash, which had responded partially to topical steroids and UVA therapy. Medical history was significant for reduced sense of smell. Examination revealed generalized, violaceous, hypertrophic papules, with dystrophic nails. He also had palmar and plantar hyperkeratosis. No mucosal lesions were observed. He received homeopathic *Carcinosinum* at MK
potency and remitted at 6 months, with improved sense of smell (Fig. 4A-D).

**Discussion**

LP is an idiopathic, autoimmune disorder primarily involving the cell-mediated immune system. It constituted 0.38 and 5% of dermatology patients (6,7) in India and Nigeria respectively, as well as 32-38/100,000 patients (8) in a UK review of GP practices.

Differential diagnosis of LP includes prurigo, eczema, psoriasis, drug eruption, oral leukoplakia, candida infection, Queyrat erythroplasia and genital lichen sclerosus (2,9,10). Distinguishing these conditions from LP is essential, as some of these conditions are not as benign as LP itself (11). In spite of this, the diagnosis of LP is often straightforward as the violaceous lesions of LP tend to be characteristic and histopathology is reserved for difficult cases (9-11).

Histopathology of LP is characteristic, comprising a hyperkeratotic epidermis with irregular acanthosis and focal thickening of the granular layer. Colloid or cievatite bodies, which are degenerative keratinocytes can be found in the lower epidermis. Other colloid bodies comprising IgM (occasionally IgG and IgA) with complement can also be seen. There are fibrin and fibrinogen deposits in the basement membrane zone. A band-like lymphocytic infiltrate (mostly helper T cells), Langhans cells and histioocytes can be seen.

Newer techniques, such as confocal microscopy, which is useful in other papulosquamous disorders, may also be of value in diagnosing LP (12).
Therapy of LP is aimed at controlling and suppressing the disorder, as curative treatment is not documented in the literature. This includes topical and oral steroids, topical and oral calcineurin inhibitors, PUVA, metronidazole, itraconazole, griseofulvin, hydroxychloroquine, dapsone and thalidomide (2,13). These options are fraught with side effects, some of which are potentially severe (13).

Complementary therapies have been tried for LP, including traditional Chinese medicine and herbs, such as Aloe vera (14). Some small studies have shown Aloe vera to be more effective than triamcinolide for oral LP (14).

Homeopathy is a complementary and alternative therapeutic method begun by the German physician Samuel Hahnemann. It utilizes infinitesimal quantities of medication to treat disease, thus, side effects such as allergies or potential teratogenicity are obviated.

A randomized controlled trial using the homeopathic medicine Ignatia amara, which is obtained by making a very high dilution of the plant, was carried out. The study group had 30 patients, with histopathologically confirmed erosive and/or atrophic LP. The follow-up period was 4 months. The patients were randomized to either placebo or Ignatia 30c. Mean lesion size and pain scores were significantly in favour of homeopathic treatment (15).

Homeopathic therapies are individualized, as homeopaths believe that personal traits produce individualized predispositions to disease. As a result, a homeopathic consultation is often like a psychological consultation, with the aim being to ascertain personality traits in the patient that can be matched by the profile of the homeopathic medicine. It is this match, rather than the physical pathology the patient presents with, that determines what homeopathic medicine may be used in each case. The homeopathic medicines used in these cases were of vegetable origin (Lycopodium and Ignatia), chemical origin (Aurum metallicum) and human origin (Carcinosinum). The posology is determined by the intensity of the manifestation of the disease and whether it is acute or chronic.

Psychosomatic dermatology supports this mode of thinking and these psychosomatic skin disorders have been classified in such a way as to ease discomfort of dermatologists, via increased knowledge (16). This mode of thinking appears to mirror and support the theory of locus minoris resistentiae that has been posited in order to explain the occurrence of cutaneous disorders in various locations (17,18). Some of these disease locations have included unilateral occurrence of rosacea, nasal spinulosis, pityriasis folliculorum, unilateral blepharitis and endosymbiont proliferation (19-25). Various side effects such as skin atrophy, telangiectasia, acne, pustules, scaling, contact allergy, weight gain, sleep disturbances and localized proliferation of endosymbions have been reported with conventional medications such as corticosteroids (26-33), but not with homeopathic therapies. Concerns regarding these side effects, including the carcinogenic potential of drugs used also for their anti-inflammatory properties have been raised and alternatives suggested (34-37).

Of note, nanomedicine has been associated with the mode of action of homeopathy and recent research suggests that homeopathic medicines may work by inducing the production of nanomolecules, which may then influence physiopathologic processes in the human body (38-40).

Although this case series is small (n=4), these cases were generalized, recalcitrant cases of LP, often with mucosal involvement. Dermatologists are aware that these are characteristically difficult to treat in daily clinical, dermatological practice. Thus, therapies that could potentially place the patient in remission would always be welcome. Homeopathy has
been found to be useful in lichen striatus, psoriasis, atopic dermatitis, acne, dermatitis herpetiformis, cutaneous T-cell lymphoma, amongst others (41-47). It is also a very cheap form of treatment, that is well tolerated by all categories of patients and can be used in pregnancy, for which there are many potential applications (48,49). Complementary and alternative medical therapies, including plant extracts have been used for the treatment of various diseases since ancient times, even during periods of economic downturn and their characteristics have been analysed in detail (50-60). Informed consent obliges us to fully disclose all positive and potential adverse effects of the therapies we propose to our patients. This ethical approach means that patients sometimes refuse to take the treatments offered to them for fear of adverse reactions as well as in resistance to the use of animals in biomedical research (61-63). This may cause them to turn to other therapeutic systems for help, even without consulting their primary physician thus, in order to properly educate our patients and bridge this gap, research into the usefulness of complementary therapies has been recommended (64,65).

Our results suggest that recalcitrant, long-standing, generalized LP, with mucosal involvement may respond to individualized homeopathy. Randomised controlled trials also support the potential role of homeopathy in the therapy of LP (11). Larger studies are needed to confirm these assertions and these may finally clarify homeopathy’s place in LP therapy.

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Availability of data and materials

The datasets used during the present study are available from the corresponding author upon reasonable request.

Authors’ contributions

LCN examined the test subjects and evaluated the in vivo effects. MM performed the acquisition analysis and interpretation of the data. ALT contributed to the writing of the manuscript, as well as all revisions for intellectual content and scientific quality. All authors contributed to the conception and design of the study, as well as revising it. All authors read and approved the final manuscript to be published and agreed to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

Ethics approval and consent to participate

This study was approved by the Ethics Committee of Cabinet Medical Individual (Bucharest, Romania), and a written informed consent was provided by all the patients included in this study.

Patient consent for publication

A written informed consent for the publication of the images was provided by all the participants.

Competing interests

The authors declare that they have no competing interests.

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