**Abstract N°: 266****Contact dermatitis to povidone-iodine: allergic or irritative?**

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Introduction & Objectives:

Contact dermatitis represents a multifaceted inflammatory skin condition resulting from direct contact with exogenous substances capable of inducing irritant or allergic responses. Povidone-iodine is a widely used antiseptic in medical practice, known for its proven effectiveness. However, its application is not without risk, as it has been implicated in cases of both irritant and allergic contact dermatitis. Differentiating between these mechanisms can be particularly challenging due to overlapping clinical features, yet such distinctions are critical for tailoring appropriate management strategies and preventing recurrence. Additionally, a combination of both mechanisms can be involved, contributing to the underdiagnosis of this dermatological condition.

Materials & Methods:

A 69-year-old male presented to our Dermatology Department with a well-demarcated, erythematous, infiltrated and pruritic plaque, featuring discrete vesicles on its surface. The lesion was localised on the left flank of the abdomen, mirroring the shape of a previously applied dressing. The onset of the lesion occurred one day after the patient underwent a diagnostic and therapeutic paracentesis in the Gastroenterology Department. Following the procedure, a dressing soaked in povidone-iodine solution was applied over the puncture site and covered with an occlusive bandage. Beyond his dermatological concern, the patient had a medical history of advanced liver cirrhosis and its associated complications, including significant ascites, diffuse erythematous gastropathy, grade D esophagitis, grade 1 esophageal varices and portal hypertension.

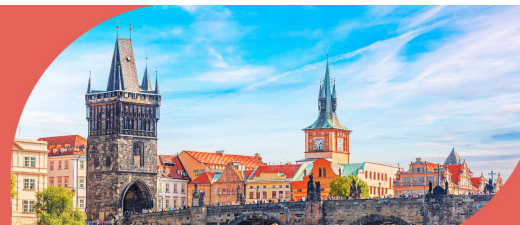
Results:

Based on the clinical examination and the medical history, a diagnosis of contact dermatitis to povidone-iodine solution was established. However, we were unable to distinguish whether the underlying pathophysiological mechanism was irritant or allergic, preventing us from establishing a definitive diagnosis regarding the involved mechanism. The recommended treatment included the removal of the povidone-iodine dressing, application of a topical corticosteroid (in our case we applied Mometasone Furoate cream) once daily for 10 days. After completing the treatment, the lesion healed.

Conclusion:

Despite being one of the most widely used antiseptics, povidone-iodine is frequently associated with contact dermatitis as an adverse reaction following surgical or medical procedures. This condition should be considered when lesions develop around the wound or within the surgical field, typically limited to the area covered by the dressing. The precise underlying mechanism for this type of contact dermatitis remains unclear according to current literature. While irritation is a potential cause, some studies suggest that prolonged, occluded contact with iodine may provoke a hypersensitivity reaction. Therefore, both allergic and irritant mechanisms may be involved, complicating the diagnosis of povidone-iodine contact dermatitis from a pathophysiological perspective.



**Abstract N°: 528****One Man, One Profession, Three Rare Occupational Diseases**

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Introduction & Objectives:

Occupational skin diseases are among the most common work-related illnesses. This case report presents a 67-year-old male fuel tanker driver with 40 years of occupational exposure who developed three rare occupational diseases.

Materials & Methods:

This case examines the diagnostic process of three rare occupational diseases using a multidisciplinary approach, including medical and occupational history, physical examination, laboratory tests, imaging techniques, biopsy, and histopathological analysis.

Results:

Physical examination revealed diffuse sclerotic skin on the face and neck, with large comedones and cystic lesions, predominantly on the left side of the face. Cutis rhomboidalis nuchae was observed in the neck region. Additional findings included focal alopecia in the beard and mustache area, digital clubbing of fingers and toes, periungual erythema, and bilateral end-inspiratory crackles on respiratory examination.

The patient had a known history of positional vertigo but no other diagnosed conditions or regular medication use. He had a 50 pack-year smoking history but denied alcohol or illicit drug use.

Laboratory tests showed negative ANA and ANCA antibodies, normal biochemical parameters, and mild peripheral eosinophilia. Biopsies from the face and neck revealed epidermal thinning, significant solar degeneration, elastosis, and increased thickened dermal collagen.

The presence of large comedones and cystic lesions, predominantly on the left side of the face, along with histopathological findings of solar degeneration, led to a diagnosis of **Favre-Racouchot syndrome**.

High-resolution computed tomography (HRCT) of the chest showed honeycombing in both lower lobes. A pulmonary function test performed by the chest diseases department confirmed a diagnosis of **interstitial lung disease**.

The patient's restricted facial mobility and mask-like white sclerotic skin suggested paraneoplastic pseudoscleroderma. A whole-body CT scan detected a 17 mm mediastinal lymphadenopathy. Endobronchial ultrasound-guided biopsy revealed anthracotic lymph nodes with benign bronchial aspiration cytology.

A detailed occupational history revealed that the patient frequently used negative pressure via his mouth to initiate fuel transfer, leading to repeated small ingestions of gasoline. Additionally, he had prolonged exposure to inhaled solvents throughout his career.

The literature suggests that toxic solvent exposure is associated with scleroderma-like conditions, interstitial lung disease, and peripheral eosinophilia. Given the presence of all three conditions and the patient's history of chronic occupational solvent exposure, a diagnosis of **toxic scleroderma-like disorder** was established.

Conclusion:

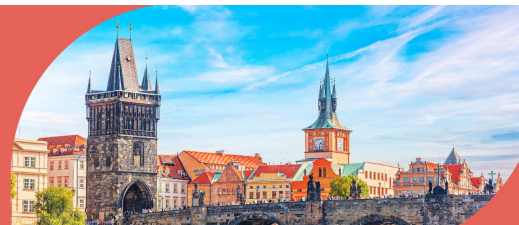
Occupational diseases are more prevalent than commonly assumed. A thorough investigation of occupational exposure is essential for diagnosing work-related conditions. This case highlights the diagnostic process of three occupational diseases and aims to contribute to their recognition and understanding.

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**Abstract N°: 566****Contact Dermatitis to Hair Coloring Shampoo: A Case Series**

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Introduction & Objectives:

Hair coloring shampoos are widely used cosmetic products, but their safety remains a concern due to the presence of irritants and allergens, such as paraphenylenediamine (PPD). These substances can trigger contact dermatitis, an inflammatory skin condition that can significantly affect patients' quality of life. The objective of this study is to describe the clinical and demographic characteristics of patients presenting with contact dermatitis induced by hair coloring shampoos and to emphasize the importance of prompt diagnosis and management.

Materials & Methods:

This retrospective case series included 10 patients diagnosed with contact dermatitis following the use of hair coloring shampoos. Data were collected on patient demographics (age, sex), the time between product application and symptom onset, clinical manifestations, management strategies, and treatment outcomes. Diagnosis was based on clinical evaluation and patient history. Patch testing was not systematically performed but was considered in recurrent cases.

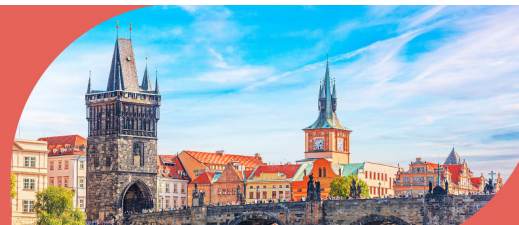
Results:

The mean age of the patients was 26.8 ± 6.4 years, ranging from 19 to 37 years, with a predominance of females (8 females and 2 males). Symptoms appeared within 1 to 3 days after using the product (mean: 1.8 days). Pruritus was reported by all patients (100%), and erythematous plaques were present in 90% of cases. Vesicular lesions were observed in 70% of patients, and 60% exhibited swelling, primarily on the face and eyelids. Additionally, 30% reported scalp pain or discomfort. Management included immediate discontinuation of the hair coloring shampoo in all cases. Topical corticosteroids were prescribed for 90% of patients, while oral corticosteroids were required for 30% of patients with severe swelling. Symptom resolution was achieved within 5 to 14 days (mean: 8.3 days), with no significant complications reported.

Conclusion:

This case series highlights the clinical presentation and management of contact dermatitis caused by hair coloring shampoos. Timely recognition of symptoms and discontinuation of the offending product are crucial for effective management. The use of topical or systemic corticosteroids yielded favorable outcomes in all patients. These findings underscore the importance of public education regarding the risks associated with hair coloring products and the need for stricter regulations on cosmetic formulations to reduce the incidence of contact dermatitis.



**Abstract N°: 715****Plant dermatoses and animal envenomation dermatitis in mountaineers**

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Introduction & Objectives:

Mountaineering sports encompass a broad range of outdoor activities including hiking, rock climbing, and alpine sports. Mountaineering sports present environmental challenges, including dermatitis from plants and animals that clinicians should be made aware of that we sought to highlight to help clinicians provide preventative guidance, diagnosis, and treatment when these conditions arise.

Materials & Methods:

A review of case reports, literature reviews, and original research articles pertaining to plant dermatitis and animal envenomation were collated from a PubMed search between October 2024 to December 2024. Boolean operators and the following search terms were used to find articles relevant for our analysis "plant dermatitis," "animal envenomation," "climbing," "hiking," "mountaineering," "Toxicodendron," "poison ivy," "poison oak," and "poison sumac."

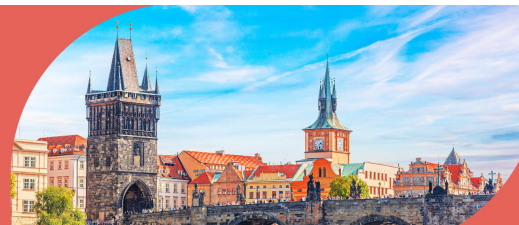
Results:

Animal bites and stings pose risks for envenomation and nidi for infection for hikers and climbers in addition to the trauma caused by such bites, with signs of cutaneous infection described above and vector borne illness in the subsequent section. Multiple species of arthropods pose risks for biting, stinging, and envenomation for hikers. Members of the insect order Hymenoptera includes include many species of stinging ants, bees, wasps, and hornets. Bees (members of Apoidea family) have detachable stingers that detach and should be removed from the skin that cause pain, erythema, and swelling. By contrast, wasps (members of Vespidae family) can sting multiple times. The venoms in Hymenoptera species can act as allergens in some individuals triggering reactions ranging from urticarial rashes to anaphylaxis, in which case patients should be given epinephrine. Hikers and climbers exposed to plants of the Toxicodendron genus (e.g. poison ivy and poison oak) can experience Type 4 hypersensitivity allergic contact dermatitis reactions due to generally to exposure to the triggering compound Urushiol produced by these plants. Toxicodendron radicans (Eastern Poison Ivy) and T. pubescens (Eastern Poison Oak) are endemic to Eastern North America and with Eastern Poison Ivy resembling vines with groupings of three teardrop shaped leaves versus Eastern Poison Oak species having groupings of green berries with groupings of three hairy oakleaf shaped leaves growing in small shrubs. Toxicodendron rydbergii (Rydberg's poison ivy) is dispersed throughout North America (with the exception of the southeastern United States) resembles a shrub with three leaf groupings and yellow berries.

Conclusion:

Dermatologists can provide consoling for hikers and climbers by helping them identify venomous plants and animals endemic to their local region and how they can identify the signs and symptoms of envenomation. Additionally, dermatologists can help to educate colleagues and wilderness guides on how to provide treatments for patients as well as diagnosis in the field.



**Abstract N°: 833****A retrospective cohort study of the efficacy and safety of dupilumab versus narrowband UVB for the treatment of chronic hand dermatitis**

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Introduction & Objectives:

Chronic Hand Dermatitis (CHD) is a common, debilitating skin condition with a substantial economic and social burden. Current treatments, including topical corticosteroids, phototherapy, and systemic therapy often fail to provide complete clearance. Recently, studies have highlighted the efficacy of dupilumab, a monoclonal antibody inhibiting IL-4 and IL-13 signaling, in treating CHD. This study aimed to compare the efficacy and safety of dupilumab versus narrowband ultraviolet B (NB-UVB) phototherapy for treating CHD refractory to topical corticosteroids.

Materials & Methods:

In this retrospective cohort study, electronic medical records were searched from January 2019 to May 2024 for the term “chronic hand dermatitis”, including hyperkeratotic, dyshidrotic, and fingertip subtypes. Adult patients with moderate-to-severe CHD (Physician Global Assessment [PGA] 3-4) and treated with dupilumab or NB-UVB after failing at least 8 weeks of potent corticosteroids were included. Primary outcomes included the proportion of patients achieving a PGA score of 0/1 at week 16. Secondary outcomes included Dermatology Life Quality Index (DLQI) changes at week 16 and adverse event rates.

Results:

A total of 63 patients (mean age 39.1 years, 44.4% male), with an average disease duration of six years, were analyzed. Hyperkeratotic CHD was most common (73.0%), followed by dyshidrotic (19.0%) and fingertip subtypes (7.9%). Thirty-three patients received NB-UVB, while 30 were treated with dupilumab. Both cohorts achieved significant reductions in PGA score from baseline following treatment ($p < .001$). Dupilumab resulted in a greater proportion of patients achieving a PGA score of 0/1 compared with NB-UVB (66.7% [$n = 20/30$] versus 39.4% [$n = 13/33$], $p = 0.044$). DLQI scores improved significantly in both cohorts ($p < 0.001$); however, there was no significant difference in mean final DLQI scores ($p = 0.729$). The percentage of patients reporting “no” or “mild” impact of CHD on quality of life was comparable between dupilumab (46.2%, $n = 12/26$) and NB-UVB (27.3%, $n = 9/33$) cohorts ($p = 0.274$). Adverse effects were more frequent with dupilumab (23.3%, $n = 7/30$) compared to NB-UVB (15.2%, $n = 5/33$), but mild.

Conclusion:

Both dupilumab and NB-UVB significantly improved disease severity and quality of life in CHD, with dupilumab demonstrating superior efficacy in achieving clinical response. Both dupilumab and NB-UVB are effective treatment options for CHD, and the choice between them should be guided by individual patient preferences and treatment availability. Further studies are warranted to optimize treatment strategies.

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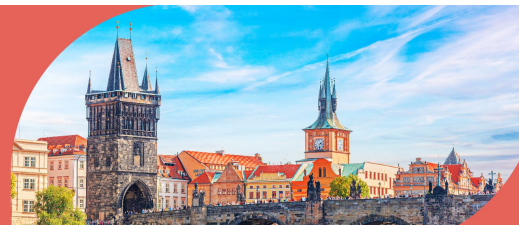
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**Abstract N°: 1523****Allergic Contact Dermatitis due to Paraphenylenediamine: Not Just a Women's Issue**Aicha Cheab*¹, Hind Majdoul¹, Hali Fouzia¹, Soumiya Chiheb¹¹Ibn Rochd University Hospital, Dermatology and venereology department, Casablanca, Morocco**Introduction & Objectives:**

Contact dermatitis is an inflammatory skin reaction triggered by exposure to allergenic substances. Paraphenylenediamine (PPD), a prevalent allergen found in hair dyes, is notorious for causing such reactions. While PPD-induced dermatitis is most commonly seen on the scalp, increasing cases have been reported on other areas like the face and beard.

This case report highlights a rare instance of contact dermatitis following the use of a beard dye shampoo, underscoring the growing concern of PPD exposure in grooming products and emphasizing the need for heightened awareness across all genders.

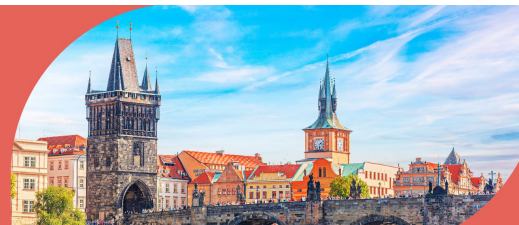
Materials & Methods:**Results:****Case presentation:**

We report the case of a 31-year-old male patient who presented with a pruritic eruption localized to the beard area. The eruption occurred approximately 8 hours after using a beard dye shampoo. Clinical examination revealed an eruption of papules and translucent vesicles, some of which are weeping, resting on an erythematous, edematous, ill-defined base with a scalloped border, occupying the entire beard area. The delay in onset relative to the use of the beard dye strongly suggested contact dermatitis. The patient was treated with topical corticosteroids and oral antihistamines for pruritus relief. The clinical progression showed significant improvement, with the reduction in swelling and erythema within 48 hours, and the drying of the vesicles within 5 days.

Conclusion:

Paraphenylenediamine (PPD), a synthetic aromatic amine, is the most common allergen responsible for contact dermatitis associated with hair dyes. Although allergic reactions to PPD are often considered a concern for women, this condition is increasingly affecting men, especially with the growing use of beard dye products. The allergic reactions typically manifest as contact eczema, with symptoms appearing within hours to days following exposure. They can range from mild pruritus to more severe manifestations, including facial edema, exudation, and blister formation. The first step in managing PPD-induced dermatitis is to immediately stop using the offending product. Treatment usually includes potent topical corticosteroids, with oral antibiotics prescribed only if secondary infection occurs. Oral antihistamines can help alleviate pruritus and provide symptomatic relief.



**Abstract N°: 1637****When Music Leaves a Mark: Occupational Dermatoses in Instrumentalists**

Daciana Elena Branisteanu^{1, 2}, Cristina Colac-Botoc¹, Roxana-Paraschiva Ciobanu¹, Catalina Anca Munteanu¹, Elena Porumb-Andrese^{1, 2}, Antonia Clivet¹

¹Hospital CFR, Iași, Romania

²Universitatea de Medicină și Farmacie „Grigore T. Popa” din Iași, Iași, Romania

Introduction & Objectives:

Music is both an art and a craft, demanding not only passion and precision but also physical resilience. Instrumentalists dedicate years to mastering their technique, yet their very tools—the strings, bows, and metals they handle daily—may become sources of dermatological distress. Occupational dermatoses, particularly allergic contact dermatitis (ACD), are frequently reported among musicians, while chronic mechanical trauma can elicit the Koebner phenomenon in predisposed individuals. When skin and sound collide, the result is not always harmony, but rather a challenge that requires both medical and artistic understanding. This study explores the spectrum of occupational dermatoses affecting musicians, with an emphasis on ACD and trauma-induced psoriasis. We present the case of a 24-year-old male professional violinist with histologically confirmed psoriasis, undergoing systemic treatment with Tildrakizumab. Despite overall clinical improvement, he exhibited persistent lesions localized to the fingertips of both hands, particularly on the left hand, which he uses to manipulate the violin strings. To address this, an intensive topical care regimen was implemented to counteract the localized mechanical stress.

Materials & Methods:

A review of literature on musician-specific occupational dermatoses was conducted, focusing on contact allergens (rosin, metals, varnishes) and repetitive trauma. Additionally, we assessed the clinical presentation, treatment history, and response to therapy in the reported case. The patient's lesions corresponded precisely to the contact areas of his fingertips, aligning with the Koebner phenomenon. The therapeutic approach included topical corticosteroids, emollients, and protective measures to complement his systemic treatment.

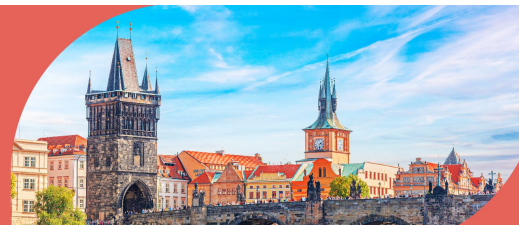
Results:

Musicians commonly experience occupational dermatoses, with ACD affecting areas of repeated contact with their instruments. Our case highlights how persistent trauma can localize psoriatic lesions to specific anatomical sites, despite overall disease control. With optimized topical therapy, significant improvement was observed in lesion severity, allowing the patient to continue playing professionally.

Conclusion:

Instrumentalists face unique dermatological challenges that can impact their performance and career longevity. Recognizing occupational dermatoses as a distinct clinical entity is essential for early diagnosis and tailored interventions. In psoriatic patients, trauma-induced flares may require localized, intensive dermatologic care alongside systemic therapy. Addressing these conditions ensures that musicians can continue their artistry unimpeded, striking a balance between skin health and musical excellence.



**Abstract N°: 1645****Clinico -Epidemiological Study of Foot Dermatitis & role of patch testing in Industrial Workers**

Mona Sharma*¹, Sundeep Chowdhry¹

¹EMPLOYEES STATE INSURANCE POSTGRADUATE INSTITUTE OF MEDICAL SCIENCES & RESEARCH, DERMATOLOGY, NEW DELHI, India

Introduction & Objectives: Foot dermatitis is a major diagnostic and therapeutic challenge in India with Occupational dermatoses (OD) being the most neglected compounding factor. Lacunae in knowledge, screening of footwear dermatitis, lack of epidemiological data, comprehensive industry based studies with patch testing in India.

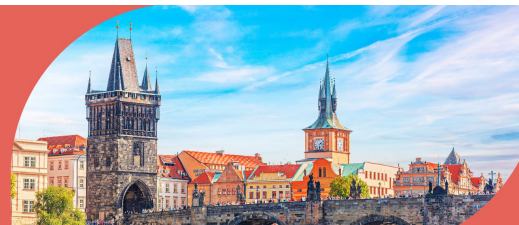
Objective: To study the clinic-demographic profile of foot dermatitis in industrial workers, confirm allergic contact dermatitis (ACD) diagnosis, and identify common allergens, particularly those related to footwear, using patch testing (Indian Standard Series and Footwear Series).

Materials & Methods: An observational cross-sectional study was conducted, screening 2,080 workers through health camps, industrial visits, and outpatient department attendees. Suspected ACD patients were subjected to patch testing according to the recommendations of the Contact and Occupational Dermatoses Forum of India (CODFI).

Results: 42.01 % workers had OD with 5 % cases of suspected ACD to footwear with highest prevalence among leather and cement industry workers using occlusive footwear. The study showed male preponderance (65.4%), peak age of onset being 21 – 30 years. Dorsal aspect of the foot was the commonest site of initial lesion (73.1%). History of atopy was present in 42 patients (40.38%). Footwear was the commonest aggravating factor. Patch test positivity was seen in 79.8% with Potassium dichromate being the most common sensitizer followed by rubber allergens. Dyes such as paraphenylenediamine 12 (11.5%), disperse orange 7 (6.7%), disperse blue 18 (17.3%) showed positive reactions. Nickel allergy was found in 8 patients (7.7%), and cobalt sulfate sensitivity in 1 patient, who also reacted to potassium dichromate. Notably, 22.11% of workers had to discontinue their jobs due to occupational dermatitis (OD).

Conclusion: We recommend routine screening with patch testing, cost-effective hypoallergenic footwear alternatives, avoidance of re-dyeing of footwear material and establishment of a national voluntary skin health surveillance system for awareness and patient care.



**Abstract N°: 1760****Hidden hazards: lichen simplex chronicus arising from unrecognized occupational contact dermatitis.**

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¹Colentina Clinical Hospital, Department of Dermatology I, Bucharest, Romania

²Dr. Leventer Centre, Department of Histopathology, Bucharest, Romania

Introduction & Objectives:

Lichen simplex chronicus (LSC) is a persistent pruritic disorder characterized by thickened, lichenified plaques resulting from chronic scratching or rubbing. Rather than affecting the entire skin diffusely, these lesions are typically confined to one or a few specific regions that are repeatedly manipulated. The precise pathogenesis of LSC remains uncertain. Due to its multifactorial nature and limited research on targeted therapies, managing LSC is challenging, with no standardized, evidence-based guidelines available.

Contact dermatitis (CD) is a prevalent skin disorder caused by exposure to external allergens or irritants, commonly linked to occupational and cosmetic exposures. The condition is classified into allergic and irritant contact dermatitis. Chronic scratching and inflammation associated with CD can lead to secondary skin changes, complicating diagnosis and management. Management primarily focuses on avoiding triggers and using topical therapies.

Although literature supports a link between chronic irritation in CD and the development of LSC, direct case reports documenting this transition are scarce.

Materials & Methods:

A 29-year-old woman with occupational exposure in dentistry presented to our Dermatology Department with a seven-month history of an intensely pruritic, shiny, erythematous-brown plaque on the dorsum of her left hand. The lesion exhibited areas of atrophy, with only temporary improvement following topical corticosteroid use. Initially, the lesion displayed a waxing and waning course, but in recent months, it had become persistent. Before our evaluation, she had received multiple diagnoses, including morphea, chronic cutaneous lupus erythematosus, tinea corporis, and chronic eczema. Despite an extensive battery of investigations, no significant abnormalities were identified. A punch biopsy was performed and confirmed LSC.

Results:

After a more detailed interview, the patient acknowledged the importance of protective equipment, such as gloves, but admitted to occasionally omitting their use due to difficulties in performing precise tasks. She also reported mixing adhesives directly on the dorsum of her left hand as part of her occupational activities. Based on these findings, the case was interpreted as contact dermatitis, which subsequently progressed to lichen simplex chronicus. Patch testing was recommended, and direct contact with adhesives was discontinued. Treatment with mometasone ointment led to complete clinical resolution, with no relapses over subsequent follow-ups.

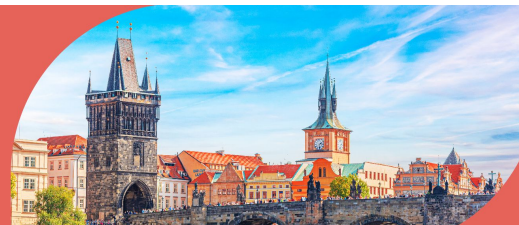
Conclusion:

This case highlights the potential progression of chronic contact dermatitis into lichen simplex chronicus, emphasizing the need to recognize persistent allergens/irritants as a driving force behind chronic pruritic conditions. While CD is typically managed by eliminating triggers, this case demonstrates how ongoing exposure and habitual scratching can lead to a shift in pathology, ultimately resulting in LSC. Understanding this evolution is crucial for timely diagnosis and intervention, particularly in professions with frequent chemical exposure. Beyond symptomatic treatment, raising awareness of

occupational risks and enforcing preventive measures are key to breaking this cycle and ensuring long-term skin health.

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**Abstract N°: 2054****Ten-Year Patch Test Results in a Tertiary Referral Center in Turkey: Evaluation of Allergen Sensitivity and Demographic Factors**Ayris Öztürk^{*1}, Irmak Caprak², Nilay Duman², Ayda Acar², Isil Kilinc Karaarslan², İlgen Ertam², Idil Una²¹Usak Research and Training Hospital, Dermatology and Venereology, Usak, Türkiye²Ege University Medical Faculty Hospital, Dermatology and Venereology, Izmir, Türkiye**Introduction & Objectives:**

Allergic contact dermatitis (ACD) is a delayed-type (Type IV) hypersensitivity reaction driven by repeated allergen exposure and is among the most common dermatological conditions worldwide. Patch testing is a vital diagnostic tool for identifying sensitizing agents. This study analyzes patch test results at Ege University (2015–2024) to determine allergen prevalence, reaction severity, and their associations with demographic variables.

Materials & Methods:

A total of 1,408 patients (3–92 years) with complete medical records were retrospectively reviewed. The TRUE Test® was applied to the upper back under occlusion for 48 hours, with readings at 48 and 96 hours. Patients who used topical corticosteroids, systemic antihistamines, or immunosuppressive therapy were excluded. Test results were assessed according to International Contact Dermatitis Research Group criteria ($\geq 1+$ = positive). Statistical analyses were conducted in R and SPSS v.29.0 using chi-square, logistic regression, and multinomial logistic regression ($p < 0.05$).

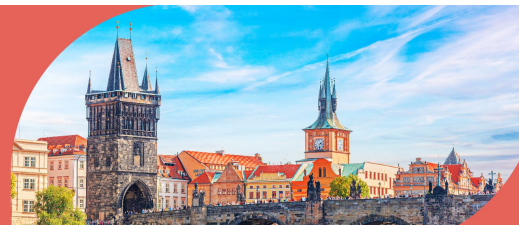
Results:

Of the 1,408 patients, 60.2% were female ($n=847$), 39.8% male ($n=561$), with a median age of 38. The most frequent occupational groups were homemakers, workers, students, and healthcare professionals. Contact dermatitis was diagnosed in 96.2% of patients, mainly affecting hands (40.3%), head/neck (22.2%), and feet (17.8%). Overall, 45.1% ($n=635$) tested positive for at least one allergen, with higher sensitivity in women (47.5%) than men (41.5%). Nickel sulfate (15.7%), gold sodium thiosulfate (8.2%), and thimerosal (7.2%) were most frequent, while neomycin sulfate had the lowest positivity (0.3%). Mild (+1) or moderate (+2) reactions predominated; p-phenylenediamine showed a higher proportion (+3) of strong reactions (16%). Nickel sulfate and thimerosal were more common in women, whereas potassium dichromate, epoxy resin, and carba mix were higher in men ($p < 0.05$). Age-wise, nickel sulfate and p-phenylenediamine were prevalent in middle-aged groups, whereas thimerosal, cobalt chloride, and parthenolide increased with age ($p < 0.05$). Among occupational groups, potassium dichromate sensitivity was highest in workers and tradespeople (OR=5.92, $p=0.018$), hairdressers had increased risk for p-phenylenediamine (OR=18.35, $p=0.003$) and formaldehyde (OR=41.09, $p=0.016$), healthcare professionals exhibited higher thimerosal sensitivity (OR=2.29, $p=0.039$), and office workers showed greater sensitivity to fragrance mix (OR=3.77, $p=0.042$) and nickel sulfate (OR=2.32, $p=0.006$).

Conclusion:

This study identifies the most common allergens responsible for ACD in Turkey and examines their associations with age, gender, and occupational factors. The findings underscore the significant influence of occupational and environmental exposure on allergen sensitivity. Our results highlight the crucial role of occupational protective measures and individual sensitivity assessments in the effective management of ACD. Furthermore, this study reinforces the importance of patch testing as a key diagnostic tool and contributes to a more comprehensive understanding of allergen sensitivity patterns in Turkey.





Abstract N°: 2072

Association of Contact Dermatitis with E-cigarettes

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²3rd Faculty of Medicine UK, Prague

Introduction & Objectives:

E- cigarettes' usage seems to rise and replace traditional tobacco smoking; however concerns regarding its dermatological aspects continue to rise, particularly contact dermatitis. Contact dermatitis is an inflammation of the skin; and has two subtypes; irritant or allergic contact dermatitis. One of the main components that seem to be triggering patient's irritable contact dermatitis is propylene glycol along with other substances such as flavoring agent; and metal components. The focus in this abstract will be mainly on propylene glycol; glycerol and nickel. Propylene glycol is one of the vaporizing agents used in e- cigarettes and is a synthetic organic compound that is odorless and tasteless.

Materials & Methods:

This abstract examines existing research on contact dermatitis. Articles and abstracts were used from Pubmed and Google Scholar using keywords such as 'e cigarettes', 'contact dermatitis', ' propylene glycol'. Articles published in the recent years were prioritized focusing on the dermatological impacts of e- cigarette ingredients.

Results:

This reviewed literature highlights a significant irritability to propylene glycol; glycerol and nickel in e-cigarettes with significant instances of contact dermatitis. Findings indicate that exposure to inhaled PG, such as from theatrical fog or e-cigarette vapor, has been linked to irritation of the mucous membranes and respiratory symptoms at elevated concentrations (Moline et al. , 2000).

Nevertheless, while instances of systemic contact dermatitis from PG given orally or

intravenously have been recorded, studies on whether inhaling PG from e-cigarettes can trigger allergic skin reactions remain limited and inconclusive.

Glycerol, another major component of e-cigarette vapor, is less frequently connected to contact dermatitis, although it may lead to skin irritation when present in high amounts. Furthermore, nickel and chromium, which are found in e-cigarette coils and housings, have been recognized as common contact allergens, with case studies reinforcing their involvement in allergic contact dermatitis induced by e-cigarettes.

The occurrence of allergic contact dermatitis due to PG seems to have decreased over time, with one study documenting a drop from 3. 8% (1996–1998) to 2. 1% (2007–2008) among individuals who were patch tested (Fransway et al. , 2013)

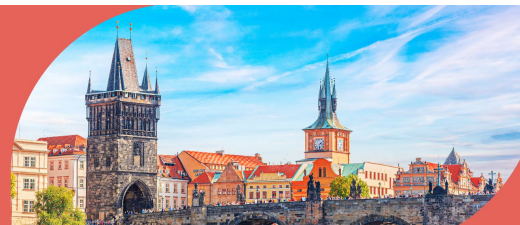
Conclusion:

E-cigarettes present a new type of exposure, and their long-term implications for skin

sensitization are yet to be thoroughly investigated. Considering the extensive use of PG in

medications, cosmetics, and personal care items, its potential function as an occupational and environmental sensitizer calls for additional examination of its effects when inhaled or absorbed through prolonged skin exposure.



**Abstract N°: 2211****Contact dermatitis to Nickel in relation to pole dance**

Mariya Razlozhka¹, Kristina Mitkova¹, Emil Stoimenov¹, Jana Kazandjieva¹, Dessyslava Nikolaeva²

¹Medical University- Sofia, Department of Dermatology, Sofia, Bulgaria

²Acibadem City Clinic Tokuda Hospital, Department of Dermatology, Sofia, Bulgaria

Introduction & Objectives:

Contact dermatitis is an itchy rash, which can be observed in many different locations of the body, caused by contact with a certain substance provoking the condition. When the allergen is contained in something not so typical, like the growing cases of hand dermatitis to slime in children or related to a hobby, like nickel contained in a metal pole used for pole dance it could be even harder to find.

Materials & Methods:

We present the case of a 35-year old woman, with erythematous, papulous rash, fine and crusty desquamation. The complaints are localized symmetrically on the upper limbs in the area of the forearms and palmar parts of the hands and were present for the past 3 years. The patient mentions a significant pruritus and when asked even more questions concerning the condition mentions practicing two interesting hobbies. She plays the gadulka, a traditional Bulgarian musical instrument, and does pole dancing. In order to determine the exact cause of the rash a patch test was performed with the European baseline series.

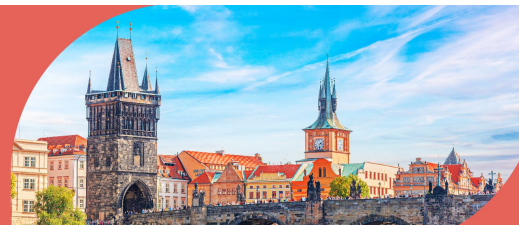
Results:

The results from the patch test were certain with a significant reaction to the allergen Nickelum (III) sulfas after 48 and 72 hours. The contact dermatitis was proved to be a result of one of the hobbies of our patient keeping in mind the location of the patients' rash. Gadulka is a traditional wooden musical instrument played with a wooden stick with animal (most often horse) hairs. Pole dancing on the other hand is practiced on a metal pole, which is being touched using the forearms and the hands- the exact sites of the rash. Proving that the pole contains nickel is done easily by performing a nickel test and observing the appearance of a red color, confirming the presence of the allergen. Since the cause of the rash was clear the patient was advised to use a barrier cream and/or protective clothing when practicing pole dancing in the future. This way she could continue practicing her hobby.

Conclusion:

Nickel is the number one allergen that provokes contact dermatitis reactions worldwide. Pole dancing dermatitis is a subject that has been previously discussed because of the escalating frequency of cases observed. There have been two previous cases presented in Bulgaria alone both describing the allergen Nickel and nickel containing poles used for pole dancing. We should keep in mind that nickel is not only contained in jewellery, metal parts of clothing, cosmetics, accessories, kitchen supplies, in medicine and dentistry etc. but also in poles used for pole dancing.



**Abstract N°: 2257****Dermatoses In The Hospital Environment: Quality Of Life And Professional Repercussions For Healthcare Staff.**

Mounira Ben Yahia^{*1}, Ines Rassas¹, Amen Moussa¹, Marouen Hayouni¹, Samia MacHghoul¹, Ons Grissa¹, Irtiyah Merchaoui¹, Charfeddine Amri¹, Mohamed Adnen Henchi¹

¹Department of Ergonomics and Occupational Medicine, Faculty of Medicine of Monastir, Monastir, Tunisia

Introduction & Objectives:

To assess the impact of occupational dermatoses (OD) on professional outcomes and quality of life (QoL) among healthcare personnel.

Materials & Methods:

A comprehensive descriptive study was conducted among healthcare personnel who presented with OD at the Occupational Medicine Department of the University Hospital of Monastir. Data were collected using a multi-item synoptic form, including socio-professional characteristics, medical data, and professional outcomes. The assessment of QoL was performed using the validated "Dermatology Life Quality Index" questionnaire.

Results:

A total of 61 healthcare personnel were included in the study. The majority of the study population (63%) belonged to the nursing profession. Irritant contact dermatitis (42%) and allergic contact eczema (23.6%) were the most common dermatoses. OD led to professional disability in 43.3% of the study population. Additionally, 36% of the personnel had to take sick leave due to their skin condition, with an average leave duration of 14 ± 3 days, and 46% benefited from job adjustments. QoL was impaired, with more than 50% of cases reporting a feeling of discomfort. Moreover, 74% of the personnel reported relationship difficulties with their family and social circles. A significant reduction in daily and leisure activities was observed in most of the study population.

Conclusion:

Healthcare workers are constantly exposed to irritating and allergenic substances such as latex gloves and disinfectant solutions, which explains the high prevalence of OD among them. These conditions cause significant professional and social disabilities, justifying the need for enhanced prevention measures.

