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內文：

Introduction

What is Lichen Planus?

- Affects **stratified squamous epithelium** virtually exclusively
- **An auto-cytotoxic T lymphocytes** trigger apoptosis of epithelial cells leading to chronic inflammation.
- Diagnosis of OLP can be **made from the clinical features**, particularly if typical skin or other lesions are present
- Mostly in the **fifth to sixth decades** of life
- **twice as common in women** than in men
- Treated with **anti-inflammatory agents**, mainly the **topical corticosteroids**.

Aetiology and pathogenesis

- **T cell-mediated autoimmune disease** but its cause is unknown in most cases.
- The **increased production of TH1 cytokines** is a key and early event in LP, it is genetically induced, and genetic polymorphism of cytokines:





Interferon-gamma (IFN-) associated	lesions develop in the mouth alone
Tumor necrosis factor-alpha (TNF-)	in the mouth and skin


- Activated T cells are then attracted and migrate towards the oral epithelium, further **attracted by intercellular adhesion molecules (ICAM-1 and VCAM)**
- **Upregulation** of **epithelial basement membrane extracellular matrix proteins**(collagen types IV and VII, laminin and integrins, and possibly by CXCR3 and CCR5 signalling pathways.)
- **Cytokines** secreted by keratinocytes **such as TNF- and interleukins (IL)-1,IL-8, IL-10, and IL-12 are also chemotactic for lymphocytes.**
- The **T cells then bind to keratinocytes and IFN-**, and subsequent **upregulation of p53, matrix metalloproteinase 1 (MMP1) andMMP3** leads to **programmed death of cells (apoptosis)**, which destroys the epithelial basal cells.
- The inhibition of the transforming growth factor__control pathway **(TGF-beta/smad)** may **cause keratinocyte hyperproliferation** that **leads to the white lesions.**

Association with systemic disease

- **HCV-specific T cells** may have a role in the pathogenesis of some cases of OLP
- Patients with LP had about a **five-fold greater risk** of being infected with HCV

Oral lesion

<p>Morphology</p>	<p>small, raised, white, lacy lesions</p>		
	<p>Papules, plaques, and can resemble keratotic diseases such as leukoplakia.</p>		
	<p>Atrophic lesions</p>		
	<p>Erosions</p>	<p>Cause pain</p>	
<p>Site</p>	<p>buccal mucosae, tongue (mainly the dorsum) gingival labial mucosa vermilion of the lower lip.</p>		

	<p>About 10% of patients with OLP have the disease confined to the gingiva</p>	
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- **Erythematous lesions** that affect the gingiva cause **desquamative gingivitis**, the most common type of gingival LP
- **Uncommon :**
 - Lesions on the **palate, floor of the mouth, and upper lip**
 - isolated to a **single oral site** other than the gingival
- **Striated white lesions**, with or without erosions can mimic **lupus erythematosus**.

Malignant potential of OLP

- At least three studies using strict diagnostic criteria have shown a significant risk of malignant transformation of OLP to **squamous cell carcinoma (SCC)**.
- The risk of malignant transformation varies between **0.4 and 5%** over periods of observation from **0.5 to 20 years**, and seems to be **independent of the clinical type of OLP or the treatment used**.

Extraoral lesion

	Skin	Skin appendages	Extraoral mucosa	
Rate	15%		20% of women with OLP	male equivalent
Site	flexor surfaces of the forearms	Scalp and nails	vulvovaginal-gingival syndrome	penogingival syndrome
morphology	Erythematous to violaceous, flat-topped, pruritic, polygonal papules that have a network of fine lines (Wickham's striae)	<ul style="list-style-type: none"> ➤ Scarring alopecia, lichen planopilaris ➤ thinning and ridging of the nail plate, and splitting of the distal free edge of the nail. 	Burning, pain, discharge, dyspareunia. (May become malignant)	may also become malignant.
Duration	several months			

- Oesophageal LP has been well-documented and is **relatively common** in patients with oral LP.

Oral lichenoid reaction

- A term used for lesions that resemble OLP clinically and histologically, but **have an identifiable aetiology**.
- Precipitants include **chronic graft-versus-host disease (cGVHD)**, some **dental materials**, and a range of **drugs**.
- To be **unilateral** and **erosive**, and histological examination may show a **more diffuse lymphocytic infiltrate** with **eosinophils and plasma cells**, and with

more colloid bodies than in classic LP

	Chronic graft-versus-host disease (cGVHD)	Dental restorative materials	Drugs
Origin	Haematopoietic stem cell transplantation	Amalgams composite resins cobalt, and gold	--non-steroidal anti-inflammatory agents --angiotensin converting enzyme inhibitors
Side effect	--high risk of developing secondary neoplasms --leukaemias, lymphomas --risk of squamous cell carcinomas	There have also been reports of malignant transformation of restoration-related lichenoid lesions	

Diagnosis of OLP

- **Oral biopsy** with histopathological examination is recommended both to **confirm the clinical diagnosis** and particularly **to exclude dysplasia and malignancy**

Management of OLP

- Depends on **symptoms**, the **extent of oral and extra-oral clinical involvement**, **medical history**, and other factors.
- Patients with **reticular and other asymptomatic** OLP lesions
--- **no active treatment**
- Patients **with symptomatic** lesions
--- need treatment, usually with **drugs**, but **occasionally surgery has a role**.
- **Mechanical injury** or irritants such as **rough restoration margins or badly fitting dentures**
---given attention, and an optimal programme of oral hygiene instituted, particularly in patients with gingival LP.

Drug treatment	<ul style="list-style-type: none"> ➤ Topical agents ➤ Fewer adverse effects. ➤ Systemic agents may be required if lesions are widespread, or there is recalcitrant disease
Topical corticosteroids	<ul style="list-style-type: none"> ➤ Midpotency topical corticosteroids ➤ superpotent halogenated steroids ➤ Elixirs ➤ apply the steroid several times daily, to maintain the drug in contact with the mucosa for a few minutes, and they should refrain from eating and drinking for 1 hour afterwards.
Other topical agents	<ul style="list-style-type: none"> ➤ calcineurin inhibitors ➤ retinoids: particularly atrophic-erosive forms, with considerable improvement ➤ Cyclosporine ➤ Tacrolimus: accelerates skin carcinogenesis in mice
Systemic treatment	drug usually reserved for cases where topical approaches have failed , where there is recalcitrant, erosive, or erythematous OLP , or for widespread OLP when skin, genitals, oesophagus, or scalp are also involved.

Surgery	<ul style="list-style-type: none"> ➤ Resection has been recommended for isolated plaques or non-healing erosions ➤ Free soft-tissue grafts have also been used for localised areas of erosive OLP. ➤ Cryosurgery has been used particularly in erosive drugresistant OLP ➤ Lasers have also been used to treat OLP
Cancer surveillance	It seems prudent to monitor patients with OLP in the long term.

題號	題目
1	下列關於lichen planus的敘述何者正確? (A) 臨床上最常出現在單側的頰黏膜 (B) 組織病理學上，在表皮及黏膜下層的交流處有衣帶狀的發炎細胞浸潤，大部分為plasma cell (C) 組織病理學上，帶狀的發炎細胞浸潤侵蝕表皮的基底細胞，形成coagulation necrosis (D) 臨床上，可以出現紅斑周圍有網狀的白色細線稱為Wickham's striae
答案(D)	出處：94年第二次檢覆筆試試題
題號	題目
2	Lichen Planus有可能與下列何種系統性疾病相關? (A) HAV (B) HBV (C) HCV (D) HEV
答案(C)	出處：