



[Authoritative facts](#) about the skin from the [New Zealand Dermatological Society Incorporated](#).

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Cutaneous lupus erythematosus

Lupus Erythematosus (LE) of the skin comprises an uncommon group of skin disorders including:

- [Discoid LE](#)
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- [Neonatal LE](#)
- [Cutaneous lupus mucinosis](#)
- [Chilblain lupus](#)
- [Drug-induced lupus](#)
- [Systemic LE](#).

[Jessner lymphocytic infiltrate](#) may also be a type of cutaneous lupus.

Cutaneous LE most often affects young adult women (aged 20 to 50). Cutaneous LE can be provoked by sunlight but it is actually more common in dark skinned than in fair skinned people. Sunscreens do not totally prevent it.

Discoid LE

In the most common form, discoid LE, unsightly red scaly patches develop which leave [postinflammatory pigmentation](#) and white scars. It may be localised or widespread.

- Discoid LE predominantly affects the cheeks, nose and ears, but sometimes involves the upper back, V of neck, and backs of hands.
- Hypertrophic LE results in thickened and warty skin resembling [viral warts](#) or [skin cancers](#).
- Rarely, discoid LE occurs on the palms and/or soles (palmoplantar LE).
- If the hair follicles are involved, they are first plugged with adherent scale and then bald areas can develop. If the follicles are destroyed, the bald patches are permanent ([scarring alopecia](#)).
- Discoid LE may affect the lips and inside the mouth, causing ulcers and scaling. These lesions may predispose to [squamous cell carcinoma](#).

Discoid lupus erythematosus





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Subacute LE

In subacute LE, a non-itchy dry rash appears on the upper back and chest, often following sun exposure. Subacute LE does not scar. It includes the following clinical types:

- Annular or polycyclic (ring-shaped)
- Papulosquamous (scaly bumps)
- [Vasculitis](#) (purple spots)
- Nodular (lumps)

Significant internal (systemic) disease is uncommon with subacute LE.

Subacute LE



Lupus profundus

Lupus profundus is the name given to lupus affecting the fat underlying skin and may also be called 'lupus [panniculitis](#)'. It may develop at any age, including children. The face is the most common area to be affected. Inflammation of the fat results in firm deep nodules for some months. The end result is unsightly dented scars ([lipodystrophy](#)) as the fat cells are completely destroyed by the lupus.

Lupus profundus



Neonatal LE

Newborn babies born to mothers with subacute LE may develop a temporary ring-like or annular rash, known as neonatal LE. Although the rash clears within a few months, the baby is at risk of congenital heart block. A paediatrician should assess all babies born to mothers with subacute LE (or carrying the antibody for this condition) at birth.

Chilblain lupus

Some people with cutaneous LE also have circulatory problems. They may have chilblains (chilblain lupus), especially if they live where there is a cool climate or they are smokers. They may suffer from [Raynaud phenomenon](#): this refers to abnormal blanching of fingers and toes in response to cold weather, followed by numbness and slow rewarming by the fingers which go blue then red. Mild arthritis of finger joints may also occur.

On examination, characteristically there are telangiectases (dilated blood vessels) at the base of the fingernails.

Chilblain lupus



Cutaneous lupus mucinosis

This non-specific presentation of cutaneous LE is rare. It is also called 'LE tumidus' and "papular and nodular mucinosis of Gold'. Papules (small bumps), plaques (flatter patches) and nodules (larger bumps) come up on the cheeks, upper chest, upper arms or back. On skin biopsy, deposits of [mucin](#) are detected in the dermis.

Drug-induced lupus

Certain medications may rarely precipitate lupus in predisposed individuals. Generally symptoms take some months to develop. Drug-induced lupus does not usually affect the skin. The most frequent drugs to be implicated are:

- Hydralazine
- Carbamazepine
- Lithium
- Phenytoin
- Sulphonamides

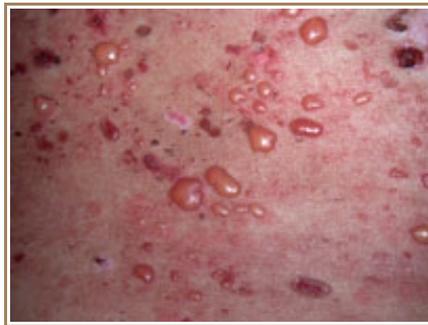
- [Minocycline](#)

Systemic LE

Cutaneous LE may be part of an uncommon disease called systemic lupus erythematosus (SLE). Only a few people with cutaneous LE also have SLE. The most common presentation is with a malar eruption or 'butterfly rash' (red patches across the cheeks). Other skin changes in SLE are [photosensitivity](#) (a rash on all sun exposed skin), mouth ulcers, [urticaria](#) (hives) and diffuse [hair thinning](#). Rarely, it may cause blisters (bullous LE).

SLE may also affect joints, kidneys, lungs, heart, liver, brain, blood vessels (vasculitis) and blood cells. It may be accompanied by [antiphospholipid syndrome](#).

Systemic LE



Bullous eruption

Vasculitis

Investigations

When tests are performed in a patient with cutaneous LE, there may be no abnormalities, especially if the patient has localised discoid LE. Sometimes however mild anaemia or a reduction in the number of circulating white cells is detected, and there may be some abnormal antibodies to cell nuclei (called antinuclear antibodies or ANA). SLE is associated with high titres (titres reflect the strength of the reaction) of ANA as well as other autoantibodies. Extractable nuclear antigen (ENA), also known as antiRo/La antibodies, is nearly always present in patients with subacute LE.

The tests may need to be repeated every year or so. The severity of the condition may be reflected in the titre of ANA and/or ENA.

Blood tests may also reveal a reduced white blood cell count (leucopaenia) in patients with LE confined to the skin. Leucopaenia tends to be more pronounced in patients with systemic LE, in whom there may also be abnormalities relating to disease affecting other organs (e.g. reduced kidney function).

[Skin biopsy](#) may be diagnostic. Direct immunofluorescence tests may show positive antibody deposition along the basement membrane (lupus band test).

Treatment of cutaneous LE

The aim of treatment for cutaneous LE is to improve the patient's appearance and to prevent scarring.

- If drug-induced, stop the responsible medication.
- Encourage smoking cessation – it is best to avoid nicotine replacement as nicotine in any form may exacerbate cutaneous LE.
- [Sun protection](#). Stay indoors whenever possible between 10 a.m. and 2 p.m. Cover up – wear a broad brimmed hat, long sleeves, high collar, long trousers or skirt, socks and shoes. Apply a broad spectrum SPF 30+ [sunscreen](#) to all exposed skin. Ask your dermatologist which is most suitable for you.
- [Cosmetic camouflage](#) may be used to disguise unsightly plaques.
- [Topical steroids](#). Strong steroid creams or ointments should be applied accurately to the patches once or twice daily, until the patches have cleared up. Ask your dermatologist how long it is safe to use your cream. A milder topical steroid can be used when the rash is less severe.
- Corticosteroid injections may be used for small lesions.
- Alternatively, the calcineurin inhibitors, [pimecrolimus cream](#) or [tacrolimus ointment](#) may be used. [Imiquimod](#) has also been reported to be helpful in a few patients.
- Antimalarial tablets. DLE is not due to malaria. However antimalarials ([chloroquine](#), [hydroxychloroquine](#) and quinacrine) have anti-inflammatory properties that work well in most cases. Regular blood tests and eye checks are necessary.
- [Oral steroids](#). Systemic steroid medicines are usually not necessary except in severe DLE. They may be continued for a few months, or several years. Steroids have important side effects, so discuss these with your dermatologist.

A [vascular laser](#) may be helpful to reduce telangiectasia. Other treatments for severe cutaneous LE include:

- Retinoids: [acitretin](#) or [isotretinoin](#)
- [Methotrexate](#)
- [Thalidomide](#)
- [Ciclosporin](#)
- [Dapsone](#)
- [Gold](#)
- [Clofazamine](#)
- [Cyclophosphamide](#)
- [Intravenous immunoglobulin](#)
- [Biological response modifiers](#)

Related information

On DermNet NZ:

- [Jessner lymphocytic infiltrate](#)
- [Facial rashes](#)

Other websites:

- [Lupus Foundation of America](#)
- [Lupus Support Group](#) (New Zealand)
- [New Zealand Rheumatology Association](#)
- [Skincareguide.com](#)
- [Lupus erythematosus](#): various chapters in emedicine dermatology, the online textbook

Books:

See the [DermNet NZ bookstore](#)

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DermNet does not provide an on-line consultation service.
If you have any concerns with your skin or its treatment, see a [dermatologist](#) for advice.

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