




- **There are three major subtypes of cutaneous lupus erythematosus (CLE):**


<u>Subtype</u>	<u>Description</u>
<b>Acute CLE</b>	<ul style="list-style-type: none"> <li>Mainly in SLE.</li> <li>Sharply demarcated, macular erythematous lesions (indurations التيبُّس and scaling might occur).</li> <li>Localized (face: butterfly) or generalized (in any area exposed to sunlight).</li> <li>Typically painful and itchy.</li> <li>Heals without scars or atrophy.</li> </ul>
<b>Subacute CLE</b>	<ul style="list-style-type: none"> <li>The most photosensitive one of all types.</li> <li>Patients have anti-SSA/Ro antibodies.</li> <li>Rash is scaly (مُتَقَشِّر), erythematous, papulosquamous (image: left) or annular (image: right). Notice that the rash in found in limbs but sparing the face.</li> </ul>  <ul style="list-style-type: none"> <li>Mostly induced by medications (example: hydrochlorothiazide).</li> <li>Heals without scars or atrophy.</li> </ul>
<b>Chronic CLE</b>	<ul style="list-style-type: none"> <li>The most common subtype is DLE (Discoid Lupus Erythematosus).</li> <li>Discoid term refers to the disc-shaped appearance.</li> <li>Sharply demarcated, raised plaques lesion with adherent scale with erythematous ring around the lesion.</li> <li>Frequently localized to the scalp, face and neck.</li> <li>Typically painless and not itchy.</li> <li>Heals with scars and atrophy thus leading to permanent alopecia and disfigurement.</li> </ul>

- **Epidemiology:**


- **Female to male ration is (9-15):1** → 90% of these females are in their childbearing years (15-40 years).
- Notice that people of all genders, ages and ethnic groups (المجموعات العرقية) are susceptible to the disease but the prevalence is variable between different sex and ethnic groups:
  - ✓ More in females than males.
  - ✓ More in blacks than white people.

- **Clinical manifestations of SLE:**

- **General:** fatigue/ malaise, fever, anorexia and weight loss.
- **Musculoskeletal:** arthralgia/ myalgia, non-erosive polyarthritis and myopathy/myositis.
- **Cutaneous:**

<u>Common (20%-50%)</u>	<ul style="list-style-type: none"> <li>• Photosensitivity</li> <li>• Butterfly rash</li> <li>• Purpura/ petechiae</li> <li>• Chronic discoid lesions</li> <li>• Non-scarring alopecia</li> </ul> 
<u>Less common (5%-20%)</u>	<ul style="list-style-type: none"> <li>• Vasculitis of digits</li> <li>• Hyperpigmentation</li> <li>• Urticaria</li> <li>• Mucosal ulcers</li> </ul>

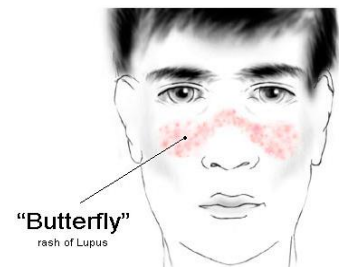


	<ul style="list-style-type: none"> <li>• Limb ulcers</li> <li>• Subcutaneous nodules</li> </ul>
<p><u>Occasional (&lt; 5%)</u></p>	<ul style="list-style-type: none"> <li>• Periorbital edema</li> <li>• Pruritis</li> <li>• Paniculitis</li> <li>• Psoriaform lesion</li> <li>• Bullae</li> <li>• Jaundice</li> <li>• Severe scarring alopecia</li> </ul> 

- **Hematologic:** anemia (normocytic normochromic/ autoimmune hemolytic anemia), leucopenia, lymphopenia and thrombocytopenia.
- **Renal:** lupus nephritis.
- **GIT:** abdominal pain.
- **Vasculitis.**

- **Butterfly rash:**

- It is a fixed erythema (احمرار الجلد) –flat or raised- of the nasal bridge and malar bones (bones of the cheek). Notice that there is sparing of nasolabial folds.
- This manifestation is found in more than 1/3 of SLE patients.



- **It is not unique to SLE. It can also be seen in:**
  - ✓ Photosensitivity: which means sensitivity to sunlight. There is another skin condition which aggravated by exposure to cold and is known as livedo reticularis (bluish mottling of the skin, usually on the legs).



- ✓ Infections.
- ✓ Allergy (urticaria).
- ✓ Drug eruption.
- ✓ Systemic diseases.
- ✓ Skin vasculitis.

- **Jaccoud's arthropathy (JA):**

- It is a chronic deformity which is characterized by ulnar deviation and subluxation of the metacarpophalangeal joints. Notice that toes might also be affected.
- This deformity is voluntarily correctable.
- It was initially described as a complication of recurrent rheumatic fever.
- It is associated with:
  - ✓ SLE.
  - ✓ Psoriatic arthritis.
  - ✓ IBD (Inflammatory Bowel Disease).
  - ✓ Malignancy.



- ✓ Pyrophosphate arthropathy.



- **Autoantibodies in SLE and other connective tissue diseases:**

<b>Antinuclear antibody (ANA)</b>	High sensitivity (> 95%) and low specificity for SLE
<b>Anti-dsDNA</b>	High sensitivity and specificity for SLE
<b>Sm</b>	Highly specific for SLE
<b>U1 RNP</b>	Mainly in mixed connective tissue disease
<b>SSA/Ro</b>	SLE
<b>SSB/La</b>	Sjogren's syndrome
<b>Antiphospholipids:</b>	
<ul style="list-style-type: none"> <li>• <b>Anti-cardiolipin</b></li> <li>• <b>Anti-β<sub>2</sub>-GPI antibodies</b></li> <li>• <b>Lupus anticoagulants.</b></li> <li>• <b>Anti-prothrombin</b></li> </ul>	SLE

- **Diagnosis of SLE:**

- **≥ 4 of the ARA criteria for classification of SLE:**

- ✓ Butterfly rash.
- ✓ Discoid rash.
- ✓ Photosensitivity.
- ✓ Painless oral ulcers.
- ✓ Non-erosive arthritis.
- ✓ Pleurisy/ pericarditis.
- ✓ Renal features (nephritis).
- ✓ Neurological features (intractable headache, seizures and psychosis).
- ✓ Hematological features (autoimmune hemolytic anemia, leucopenia, lymphopenia and thrombocytopenia).
- ✓ Immunological features (positive anti-DNA, antiphospholipid antibodies or anti-Sm test and false positive syphilis serology).
- ✓ High titer of antinuclear antibody (ANA).

- **Management of SLE:**

- **Conservative therapy:**

- ✓ Rest.
- ✓ Avoid stress.
- ✓ Avoid exposure to heat and sunlight.
- ✓ Diet (↓ fat, ↑ fish oil derivatives and ↑ protein).
- ✓ Advise the patient to take calcium and vitamin-D.
- ✓ Bisphosphonates.
- ✓ Avoid estrogen pills.

- **Drug therapy:**

<b>Arthralgia/ fever</b>	NSAIDs
<b>Arthralgia/ myalgia and lethargy</b>	Hydroxychloroquine
<b>Malar/discoid rash</b>	Prednisolone, hydroxychloroquine, thalidomide
<b>Arthritis/ serositis/ myositis</b>	Prednisolone
<b>Autoimmune anemia or ITP</b>	Prednisolone, azathioprine
<b>Renal</b>	Prednisolone, azathioprine
<b>CNS</b>	Prednisolone, anticonvulsant

- **Prognosis of SLE:**

- Poor prognosis (50% mortality within 10 years of diagnosis).
- 25% of patients may experience remissions, sometimes for a few years, but these are rarely permanent.