SLE has protean clinical manifestations that can affect virtually every organ, and can vary dramatically from patient to patient. PRESENTATION: Active SLE, mild SLE, Uncontrolled SLE, Remission, Complete Response NEED 4+ Manifestations as required by ACR

SLE = ACR Diagnostic Criteria

- Malar Rash
- Discoid Rash
- Photosensitivity
- Oral Ulcers
- Arthritis
- Serositis OR
- Renal D/O OR
- Nero D/O OR
- Hematology D/O OR
- Immunologic D/O OR
- ANA Antibody

SLE Management

- Referral to specialist
- · General treatment considerations
- SUN PROTECTION
- Avoid Intense sunlight during peak daylight hours
- Apply sun screen SPF 30 (30-60) prior to exposure;
- reapply every 4 6 hours
- · Wear sun protective clothing
- STOP smoking makes skin condition worse eWhit
 - Diet and nutrition
 - Regular exercise
 - Immunizations · Avoid certain medications
 - No pregnancy during active disease

 - Avoid high dose estrogen contraceptives



Malar/Discoid Rash Oral Ulcers ANA, dsDNA, Histone Anemia, Thrombocytopenia, Leukopenia Libman-Sacks Endocarditis

Renal Failure 2nd Trimester Losses (Hypercoagulability)

- Face Hydrocortisone limit to 2 weeks • Trunk/Limbs- Betamethasone Valerate

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- Antimalarial Hydroxychloroquine (Plaquinil)
- 200-400 mg/day -NOT OVER 6.5 MG /KG/DAY
- SE: Gl upset, HA, Rash
- Rare ADV- Retinal deposition with possible irreversible retinopathy
- NEEDS baseline DILATED EYE EXAM & yearly f/u

IF unable to use HYDRoxy use:

- Chloroquine (Aralin) 200-500 mg
- Quinacrine 100 mg (does not cause rental toxicity but rarely used BC YELLOW discoloration

LUPUS with MSK S/S treatment:

- NSAIDS
- And/or ACETAMINOPHEN
- PPI may be needed
- Methotrexate 7.5 15 mg/ day
- Initial: Hydroxychloroquine
- Second Methotrexate
- STEROIDS USE FOR FLARES
- NSAIDS Arthralgia
- Cyclophos Acute cerebrates/neprhritis
- Mycophenolate Maintenance
- EYE EXAM with Hydroxychloroquine • No Eye S/S use Quinacrine

- Pathogenesis is related in large
 - part to production of increased
 - quantities and immunogenic
 - forms of nucleic acids and other
 - self-antigens, which drive autoimmune-inducing activation
 - of innate immunity,
 - autoantibodies, and T cells.
- AUTOIMMUNE CHRONIC
 - INFLAMMATORY DISORDER-
 - ETIOLOGY UKNOWN

65% - between ages 16 & 55

- 20% < 16
- 15% > 55

In women of child bearing age, frequently miscarriages should be highly suspicious and one needs to consider the possibility of SLE,

endocarditis, myocarditis, interstitial PNA, or aseptic meningitis's

**Variable:

Most Common: Picture of constitutional complaints with:

- Skin, MSK, Mild hematologic and serologic
- Some with:
- · Hematologic, renal, or CNS involvement

FEVER: 50-100% of persons sometime during the disease presentation

Myalgia - common

Loss - prior to diagnosis of SLE; unintentional - decreased appetite, side effects of medications, GI (reflux, abdominal pain, PUD, pancreatitis)

SLE- OLDER PERSONS LOL

- S/S > 55 YO. (10% of cases)
- Average age of onset 2- 3 vrs
- F: M Ratio 4:1
- · Clinical Présentation
- Milder dais, less likely alopecia, malaria rash, photo sensitivity, oral/mucosal ulcers, glomerulonephritis, lymphadenopathy
- More likely: CYTOPENIA, SEROSITIS, INTERSTITIAL PNA
- Incidence of CA less except for NON-HODKINGS LYMPHOMA
- Death- usually r/t complications o tx; INFECTIONS, CV DISEASE, STROKE

Management: Varies with involved organ systems

Antimalarials - well tolerated

QUINACRINE - Dose not cause RETINAL damage

NSAIDS- Use Cautiously with renal impairment

Cyclophosphamide - well tolerated

Differentials:

- Chronic Fatique
- Weight Loss
- Polyarthritis/polyarthralgia
- · Glomerulonephritis; other renal
- Possible causes of abdominal pain, lung disease, cardiac, vision, neurologic, hematologic, lymphadenopathy, seizures, different skin lesions

Prognosis - Much improved - earlier diagnosis; better treatment

Clinical Course variable with

remissions and acute and

chronic relapses. The patter that

DOMINATES during early disease tends to prevail

Prognostic factors:

Renal disease, HTN, Male

gender, Young age, older age

at new onset, Presence of

antiphospholipid antibodies,

Poor socioeconomic status. high overall disease activity

~ 90% of cases are in females; more in urban setting

Prevalence: Asian, AA, AfroCaribbeans and Hispanic Americans

UNDERLYING FACTORS

- VIRUSES
- UV LIGHT
- SILICA DUST
- ENVIRONMENTAL: Prevalence of lupus in dogs of pts with lupus; NO association between SLE and hair dyes, occupational solvent, pesticides or alcohol,

NOTE: Moderate alcohol intake may be protective

Gain- Usually d/t salt and water retention associated with hypoalbuminemia (nephrotic syndrome or protein losing enteropathy or increased appetite associated with the use of glucocorticoids)

GI Organ Involvement 25-40%

- Dysphagia MOST FREQUENT
- Pulmonary MOST PATIENTS Pleuritic chest pain
- MSK
- Pleuritis
- Upper Respiratory infection
- Interstitial lung disease 9%
- Pulmonary hypertension is RARE

Neurologic and psychiatric 10-60% involvement

MOST COMMON: ***Cognitive dysfunction; stroke; seizures; HA; peripheral

LESS COMMON: Movement D/O; Cranial neuropathies

Occular involvement

Keratoconjunctivitis Sicca (Sjorgrens dry eye)

Raynaud Phenomenon 16-40%

Secondary Raynaud's Phenomenon; Some type of underlying vascular dysfunction causing disordered vascular reactivity

ORGAN INVOLVEMENTS:

- MSK- 95%
- · Arthritis and arthralgia
- Migratory, symmetrical polyarticular
- MORNING STIFFNESS BRIEF

- BUTTERFLY RASH
- Discoid lesions in malar distribution
- Oral and or Nasal Ulcers (Purpura mucous membranes)

CARDIOVASCULAR - Seen in most common presentation

- Pericarditis
- Valvular Disease
- Myocarditis Increased risk of CAD

Renal ORGAN Involvement

COMMON: Lupus Nephritis with different classifications 1 - 6

Other Forms: Tubule-interstitial nephritis: vascular disease and renal disease associated with drug-induced SLE

Cytopenia (leukopenia, mild anemia of chronic disease and thrombocytopenia) Lymphadenopathy and splenomegaly

Immunologic:

- Auto-antibodies HALLMARK
- ANA + Titer
- Anti-double stranded DNA (dsDNA)
- Anti-SM antibodies

DRUG INDUCED- 15K - 30K cases per year (equal in males and female but more common in older PT and Caucasians Possible Genetic predisposition:

DRUGS: Procainamide, Hydralazine, Penicillamine, MONOCYCLINE (YOUUNGER patients) Su Suspect - on medication at least 1 month and present with TYPICAL symptoms

MANAGEMENT - STOP MEDICATION

• SLE Diagnostics: LABS:

- CBC and diff • CMP: ESR and or CRP
- CK
 - ΠΔ Auto ANTIBODIES:
 - · Antiphospholipid antibodies

• Antibodies to double stranded DNA

• Anti-SMITH (Sm) Antibodies • Serum Compliment - C3 and C 4

Plain Radiograph of involved joints

- Renal US
- Chest X ray • Echo
- FKG
- CT • MRI
- Contrast Angiography
- · Biopsy-tissue or organ
- Everyone IV Cyclophosphamide Life-threatening illness Oral Cyclophosphamide Use after IV Methotrexate 2nd line to Hydroxychloroquine NSAIDs Symptom control only Adjunctive Maybe, not yet approved

When

S/S CLINICAL PRESENTATION:

- Fever, Fatigue, Weight loss,
- Photosensitivity Rash,
- Arthralgia OR arthritis
- Raynaud Phenomenon
- Serositis (refers to inflammation of the serous tissues of the body, the tissues lining the lungs (pleura), heart (pericardium), and the inner lining of the abdomen
- (peritoneum) and organs within) • Nephritis or Nephrotic Syndrome
- Neurologic Symptoms
- Alopecia
- Phlebitis • Anemia
- Recurrent Miscarriages

- Musculocutaneous Photosensitive lesions 80%
- SUBACUTE cutaneous lesions

- Thrombophilia (venous thromboembolism; arterial disease)