

MUSCLE WEAKNESS,

PROXIMAL

Symmetrical

All members of the same evil family, the Idiopathic Inflammatory Myopathies

Difficulty kneeling, climbing or descending stairs, raising arms, and arising from a seated position; difficulty holding the head up

SENSATION AND REFLEXES WILL BE PRESERVED

IS IT MYASTHENIA?

Myasthenia gravis affects the EYE MUSCLES early; The myopathies **NEVER** affect the eye muscles.

Of insidious onset (usually takes several months)

- Sometimes painful (myalgia and arthralgia)
 - **DEFINITELY** painful on palpation:
 - May even be ATROPHIC after a while
- **DYSPHAGIA +/- Aspiration**
- FINE MOTOR CONTROL is lost late in polymyositis

- BUT is lost EARLY in INCLUSION BODY MYOSITIS

CHARACTERISTIC RASH: face, trunk, hands: The "shawl" sign

These qualify your myositis as a **DERMATOmyositis**

The heliotrope rash: symmetric, confluent, purple-red, macular eruption Mainly face, the eyelids and periorbital tissue.

Gottron's rash: erythematous nail beds and scaly purple papular eruptions over the dorsum of the hands, especially MCP and interphalangeal joints.

(commonest variety)

Extramusculoskeletal manifestations:

Interstitial lung disease or aspiration pneumonia

Cardiac arrhythmia or congestive heart failure

Need to ask about **FAMILY HISTORY** of muscle disease ...and **MEDICATIONS**

DIFFERENTIALS TO EXCLUDE:

- **Vasculitis**
- Progressive systemic sclerosis
- Infectious myositis
- Muscular dystrophy

- **Eaton-Lambert syndrome**
- Drug-induced myopathies Corticosteroids, statins,
- **Electrolyte disorders**
- Inherited myopathies

POLYMYOSITIS can be produced by a PARANEOPLASTIC SYNDROME!

Especially ovaries, gastrointestinal tract, lung, and breast and NHL. 10-20% of patients with dermatomyositis have neoplasms

The only specific antibody:

anti-Jo-1

= antibody against histidyl-tRNA synthetase; associated with DM, PM, Raynauds', interstitial pneumonitis, and so forth...

THESE are the only 3 tests you really need

FBC may show some leucocytosis

EUC – are they in acute renal failure 2ndary to rhabdomyolysis?

Urinalysis may show blood++++ as myoglobinuria

ESR will be moderately elevated

Rheumatoid factor (RF) present in 50%

Antinuclear Antibodies (ANA) present in 50%

Acetylcholine Receptor Antibody for Mysathenia...

Creatine Kinase (CK) WILL BE RIDICULOUSLY HIGH

ELECTROMYOGRAPHY: excludes neurogenic cause

Will give accurate diagnosis; IF you manage to get a biopsy of an affected patch of muscle.

MANAGEMENT:

dermatomyositis is the only disease that shows "perifascicular atrophy" whereas polymyositis shows necrosis and inflammation

- 1. Prednisone: monitor response with CK levels and clinically: no functional improvement?
- 2. ADD <u>AZATHIOPRINE</u> and watch for side-effects { bone marrow depression, hepatotoxicity, skin rashes, nausea and vomiting.
- 3. PHYSIO and EXERCISE; taper immunosuppressives, repeat electromyography in 3 months
- Other options for second line therapy would be methotrexate, chlorambucil, cyclosporin and intravenous immunoglobulin