Autoantibodies: The mystery revealed

Connective Tissue Diseases

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Anti-PL-7 antibodies

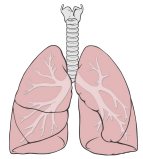
- **Name**: « Pl » stands for « Preciptin line »
- **Family:** Among the myositis specific autoantibodies
- **Target antigen:** Threonine-RNA-t-synthetase

Prevalence: found in only **2–5%** of idiopathic inflammatory myopathies (IIM) patients

Associated with **antisynthestase syndrome (ASS)**
Among the diagnostic criteria for **ASS** according to **Connors *et al* and Solomon *et al*** which include the **presence of aminoacyl-tRNA synthetase autoantibodies** with at least one clinical item

Main clinical features:

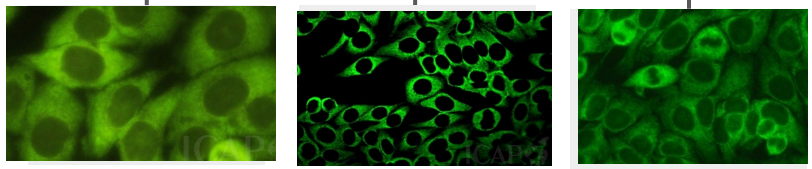
- **early** and **severe interstitial lung disease**
- presence of heliotrope rash
- arthritis
- pericardial effusion
- increased morbidity and mortality

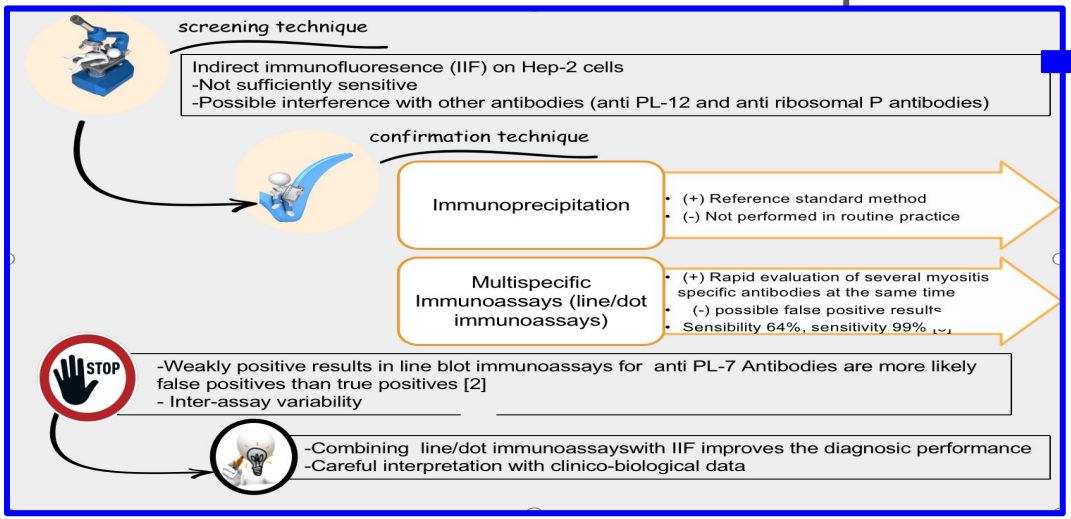


Screening techniques routinely performed:

- **IIF on HEp-2 cells**
- **ELISA screen** (Jo1, PL-7, PL-12, EJ and KS)

IIF Patterns on HEp-2 cells: Cloudy, almost homogeneous cytoplasmic pattern





References