Autoantibodies: The mystery revealed

Connective Tissue Diseases

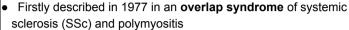
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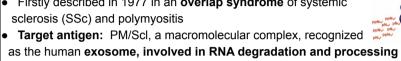


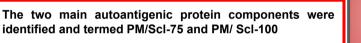




Disease (Non Specific Interstitial Pneumonia pattern)

- DM rash and calcinosis with less pulmonary arterial hypertension and esophageal symptoms.
- Displays a lower death risk compared to other SSc subsets in the first 10 years mainly due to milder ILD progression

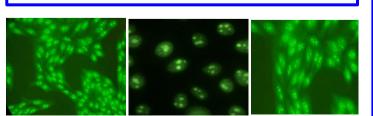




Even though the isolated presence of an antigenic specificity is observed in only 3 to 10% of cases, the simultaneous search for these two targets is relevant. Furthermore, some authors suggest specific clinical phenotypes for each antigenic target

Found in 4 to 8% Idiopathic Inflammatory myopathies and in 3% of Systemic sclerosis

IIF pattern on HEp-2 cells: Homogeneous nucleolar In addition, Anti-PM/Scl antibodies can yield a weak diffuse nuclear fine speckled staining





Indirect immunofluorescence staining of HEp-2 cells (IIFA) (Gold Standard) -high sensivity for PM-Scl antibodies -interference of other anti nucleolar autoantibodies: anti-fibrillarin or anti-RNA polymerase I multispecific immunoassay monospecific immunoassay Differentiate between two isotypes of anti--PM/ScI ELISA PM/Scl antibodies that may be related to -PM1-Alpha ELISA distinct systemic sclerosis (SSc) clinical subsets line/dot immunoassays -Often yields false positives due to concurrent SSc-associated ANAs, including anti-topo I, anti-U3 RNP, anti-Ku, and anti-

Immunoprecipitation

reference standard method: detect antibodies reactive with the native structure of proteins.

-False negative are more common with Pm-scl 75

RNA polymerase III antibodies

SSc without corroborative IIF

-line/dot immunoassays should not be used in the diagnosis of

