Connective Tissue Disease Cascade (CTDC)

CTDC / Connective Tissue Diseases Cascade, Serum

- Cyclic Citrullinated Peptide Antibodies, IgG, Serum
  - ≥20 U: Positive result supports the diagnosis of RA
  - <20 U: No further testing

- Antinuclear Antibodies (ANA), Serum
  - <3.0 U: No further testing
  - ≥3.0 U: Antibody to Extractable Nuclear Antigen Evaluation, Serum
    - ≥1.0 U: Centromere Antibodies, IgG, Serum
      - ≥1.0 U: Positive result supports the diagnosis of LE and may indicate the presence of CNS involvement
    - ≥1.0 U: Ribosome P Antibodies, IgG, Serum
      - ≥1.0 U: Positive result supports the diagnosis of LE and may indicate the presence of CNS involvement

- DNA Double-Stranded (dsDNA) Antibodies with Reflex, IgG, Serum
  - >75 IU/mL: DNA Double-Stranded (dsDNA) Antibodies by Crithidia luciliae IFA, IgG, Serum
    - 30-75 IU/mL: CRITH / DNA Double-Stranded (dsDNA) Antibodies by Crithidia luciliae IFA, IgG, Serum
    - ≤30 IU/mL: Negative result

- Antinuclear Antibodies (ANA), Serum
  - ≥3.0 U: Antinuclear Antibodies (ANA), Serum
  - <3.0 U: No further testing

Positive result supports:
- the diagnosis of LE
- the diagnosis of CREST syndrome
- the diagnosis of LE and may indicate the presence of CNS involvement

Negative result:
- Unable to confirm borderline positive result obtained by EIA

Centromere Antibodies, IgG, Serum
- ≥1.0 U: Positive result supports the diagnosis of LE and may indicate the presence of CNS involvement

Ribosome P Antibodies, IgG, Serum
- ≥1.0 U: Positive result supports the diagnosis of LE and may indicate the presence of CNS involvement

SS-A/Ro Antibodies
- ≥1.0 U: Positive result supports the diagnosis of LE
- ≥1.0 U: Positive result supports the diagnosis of Sjögren syndrome or other CTD

SS-B/La Antibodies
- ≥1.0 U: Positive result supports diagnosis of Sjögren syndrome or other CTD
- ≥1.0 U: Positive result supports diagnosis of LE

Sm Antibodies
- ≥1.0 U: Positive result supports diagnosis of LE
- ≥1.0 U: Positive result supports diagnosis of mixed connective tissue disease

RNP Antibodies
- ≥1.0 U: Positive result supports diagnosis of mixed connective tissue disease
- ≥1.0 U: Positive result supports diagnosis of scleroderma

Scl 70 Antibodies
- ≥1.0 U: Positive result supports diagnosis of scleroderma
- ≥1.0 U: Positive result supports diagnosis of polymyositis

Jo 1 Antibodies
- ≥1.0 U: Positive result supports diagnosis of polymyositis
- ≥1.0 U: Positive result supports the diagnosis of LE
- ≥1.0 U: Positive result supports the diagnosis of CREST syndrome

NOTE: Positive results not diagnostic for any CTD and should be interpreted within the clinical context of the patient.

CNS=central nervous system
CREST=calcinosis, Raynaud disease, esophageal motility disorder, sclerodactyly, and telangiectasia.
CTD=connective tissue disease
SLE=systemic lupus erythematosus

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