

Anti- Cyclic Citrullinated Peptide (CCP) Antibody Test

A Statistically Significant Test for RA with Higher Specificity, PPV (Positive Predictive Value), than RF Test in a Clinically Diverse Population



Diagnostic Utility:

- Part of ACR - EULAR classification criteria for Rheumatoid Arthritis (RA)
(2010 rheumatoid arthritis classification criteria: an American College of Rheumatology/European League Against Rheumatism Collaborative Initiative)
- Positive in 40% of patients who test negative for Rheumatoid Factor (RF)
- The anti- CCP antibody test yields higher specificity and comparable or even higher sensitivity with respect to rheumatoid factor (RF)

	Specificity	Sensitivity
Anti - CCP Antibody Test	95%	67%
Rheumatoid Factor (RF) Test	85%	69%

(Simon C et al. Anti - citrullinated peptide antibody: death of the rheumatoid factor? MJA 2009; 190: 693-695)

Anti - CCP & Prediction of Disease Onset:

- Antedates clinical arthritis by an average of 5 years
- Predict the eventual development into RA when found in undifferentiated arthritis (UA)

Anti - CCP as Prognostic Marker:

- Useful for monitoring treatment response
- In established disease, presence of anti- CCP is associated with more severe clinical outcomes, higher disease activity and worse radiographic progression.