Anti-Neutrophil cytoplasmic antibody (ANCA)

**General information**

Anti-neutrophil cytoplasmic antibodies (ANCA) are found in several types of vasculitis. Samples for ANCA are initially tested by immunofluorescence on neutrophils. Positive samples are then further tested by multiplex flow immunoassay for specific antibodies against either proteinase 3 (PR3) or myeloperoxidase (MPO). In general, a classical c-ANCA pattern corresponds to PR3 reactivity whilst a perinuclear p-ANCA pattern corresponds to MPO reactivity. Atypical ANCA patterns do not usually correspond to either antigen. These tests are used to diagnose vasculitis and to monitor disease activity. Infections and autoimmunity can produce false positive tests reducing the specificity of ANCA testing.

**Specimen transport:** At room temperature

**Repeat frequency:** No more frequently than every four weeks, except when plasmapheresis is being done.

**Special precautions:** None

**Laboratory information**

**Normal reference ranges:** Neg

**Volume and sample type:** 7ml clotted blood

**Method:** Immunofluorescence

**Turnaround time (calendar days from sample receipt to authorised result):** Median - 3

We will undertake urgent same day testing during laboratory opening hours provided that the laboratory is contacted by phone and the sample arrives before noon.

**Clinical information**

**Indications for the test:** ANCA testing is helpful in patients with vasculitis affecting the kidneys

**Factors affecting the test:** Positive ANA, ie. the presence of other autoantibodies. False positives see in infections.

**Guidelines are provided in the following reference:** Addendum to the International Consensus Statement on Testing and reporting of ANCA Am J Clin Pathol 2003; 120; 312-318

**ICE reference:** Neutrophil Cytoplasmic Antibodies (ANCA)

(Last updated August 2018)