

## SEROLOGY (INFECTIOUS DISEASES)

- Even though a tube of clotted blood is indicated with most tests, a battery of tests can be done on one clotted sample and not a separate sample/test.

Anti-streptolysin O antibodies

Anti-DNAse-B antibodies

Brucella antibodies

Schistosoma antibodies (Bilharzia)

*Coxiella burnetii* antibodies

Cysticercosis antibodies

Echinococcus antibodies

Entamoeba antibodies

Histoplasma antibodies

Legionella antibodies

Leptospira antibodies

*Mycoplasma pneumoniae* antibodies

Rickettsia antibodies

Toxocara antibodies

Toxoplasma antibodies (TBH: TORCH screen - Only Toxoplasma test is done at Serology; Rubella, CMV and Herpes tests are done at the Virology laboratory in the Medical School)

Widal test

Yersinia antibodies

- ◆ All abovementioned serology tests:  
Serum: 10 ml clotted blood in sterile tube  
A battery of tests can be done on one clotted sample.

Syphilis serology (RPR; FTA; VDRL)

RPR

- ◆ Serum: 10ml clotted blood in sterile tube

FTA

- ◆ Serum: 10ml clotted blood in sterile tube  
Cerebrospinal fluid: 2ml in sterile tube

VDRL

- ◆ Cerebrospinal fluid: 2ml in sterile tube

Chlamydia antigen detection

- ◆ Cervical or urethral swabs must be sent in transport media (TBH: swabs and transport media obtainable from the laboratory)

*Pneumocystis jirovecii* antigen detection

- ◆ Broncho-alveolar lavage specimen or tracheal aspirate  
Sputum is only recommended if above mentioned specimens cannot be obtained. Send an early-morning specimen in a sterile container (saliva is not acceptable). At TBH only respiratory specimens <6 hours old and received on weekdays before 13h00 will be processed. A similar sample should be sent to cytology for staining.

- Do not request Bacteriological culture and *Pneumocystis* serological

detection on the same specimen.

## IMMUNOLOGY

- ☑ Even though a tube of clotted blood is indicated with most tests, a battery of tests can be done on one clotted sample and not a separate sample/test.

### AUTO-ANTIBODY TESTS:

Collagen screen (stomach, liver and kidney tissue substrate): Anti-mitochondrial; Anti-smooth muscle; Anti-parietal cell and Anti-nuclear antigen

Anti-nuclear antigen (ANA)

Anti-DNA

Anti-extractable nuclear antigen

Anti-Glomerular basement membrane

Anti-Ro

Anti-La

Anti-SCL-70 (Scleroderma)

Anti-Jo1

Thyroid antibodies (Anti-microsomal; Anti-thyroglobulin)

Anti-cardiolipin

ANCA (Anti-cytoplasmic antibodies)

LKM-antibodies(Liver Kidney Microsomes)

Rheumatoid factor

Anti-Coeliac disease/Anti- Gliadin antibodies

Anti -Gad/IA2 antibodies.

### ◆ Auto-antibody tests:

Serum: 5 ml clotted blood in sterile tube. A battery of tests can be done on one clotted sample.



TISSUE	DISEASE	AUTO-ANTIBODY
Thyroid	Hypothyroidism	Anti-microsomal Anti-thyroglobulin
Gastric	Pernicious anemia	Anti-parietal cell
Liver	Autoimmune hepatitis	Anti-smooth muscle
	Primary biliary cirrhosis	Anti-mitochondrial
Neuromuscular	Myasthenia gravis	Anti-acetylcholine receptor (sent to GSH)
Kidney	Goodpasture's syndrome	Anti-Glomerular basement membrane
Haematological	Antiphospholipid	Anti-cardiolipin

Connective tissue diseases	Rheumatoid arthritis SLE Polydermatomyositis Scleroderma Mixed Connective tissue disease Sjogren's syndrome	Rheumatoid factor; Anti-ANA; Anti-DNA; Anti-ENA (Anti-RNP; Anti-Sm; Anti-Ro; Anti-La and Anti-Scl 70)
	Vasculitis	Anti-neutrophil cytoplasmic membrane (ANCA)

### Circulating immune complexes

- ◆ Serum: 5 ml clotted blood in sterile tube

### COMPLEMENT STUDIES:

#### C3; C4

- ◆ Serum: 5 ml clotted blood in sterile tube

#### Total complement

- ◆ Serum: 5 ml clotted blood in sterile tube **on ice**

#### C3 nephritic factor

- ◆ Serum: 5 ml clotted blood in sterile tube

📖 At TBH: Test is only performed when C3 is reduced

#### C1-esterase inhibitor (C1 inactivator)

- ◆ Serum: 5 ml clotted blood in sterile tube

📖 At TBH: test is only performed when C4 is reduced

#### Other complement fractions

- ◆ Serum: 5 ml clotted blood in sterile tube **on ice**

📖 At TBH: Test is only performed when total complement is absent or markedly reduced

#### CRP (C reactive protein)

- ◆ Serum: clotted blood in sterile tube

Adults: 5ml

Children: 1.5ml

#### Fungal antibodies

- ◆ Serum: 5 ml clotted blood

#### Avian antibodies

- ◆ Serum: 5 ml clotted blood

#### IgG subclasses

- ◆ Serum: 5 ml clotted blood

#### Quantitative CD4 and CD8 counts and ratio

- ◆ 5ml EDTA blood. Keep blood at all times at room temperature .

- ☎ Lymphocyte subsets on bronchial lavages - only by prior arrangement with laboratory, at TBH: extension 5564 or 5278  
Test only done on weekdays Monday to Friday.  
Result also available in absolute count:-No need to request FBC and DIFF first.

#### HLA B27 marker

- 5ml EDTA blood  
Keep blood at all times at room temperature.

#### Lymphocyte function tests (T- and B-cell activity)

- ☎ Arrange with laboratory, At TBH: extension 5564 or 5278
- 20ml EDTA blood  
Ensure that patient is not on antibiotic treatment as this will affect the result of this test.  
Allow for a seven day delay before result becomes available.

#### Neutrophil function tests

- ☎ Arrange with laboratory, At TBH: extension 5564 or 5278
- 20ml EDTA blood + 5ml clotted blood

LAD(Leucocyte adhesion receptors)

Burst test(Oxidative burst test)

Fast Immune assays(Lymphocyte transformation flowcytometric assays)