

ASOT Test

This enzyme Streptolysin secretion by Streptococcus pyogenes in the form of coenzyme lysine of red blood cells this enzyme is related installation antigenic protein with a molecular weight of 60,000 Dalton pyrogenic rheumatic works to stimulate the immune system to form Abs. against this enzyme as well as bacterial toxins deposited in the heart tissue and in the heart valves performer to damage the valves characterized these toxins as a damaged red blood cells to the presence of oxygen and from here the label came streptolysin O considered damaged Abs base in the diagnosis of rheumatic fever and is considered high-titer is an indicator of the state of infection and injury for this the enzyme, which are presented by the bacteria .

Principles

The basis of the examination depends on the principle of examination interaction of streptolysin with antibodies Abs. bacteria if they are present in the patient's serum then as an indicator of the interaction and the titer is measured as the inverse of the highest dilution of the patient serum

Latex method

Placing a drop of the patient's serum patient serum with a drop of antigen Ag which is a streptolysin on Slade black slide In the case of an endearing and agglutination means the presence of bacteria must work titration and then as follows

Then add a drop of all this titration to the drop of the antigen on the slide and note agglutination in any tube of these tubes disappears and is considered in this case is the inverse of the last dilution reciprocal of the .last dilution

For example graininess appears in the tube (5) and disappears into the tube (6) shall mitigation is 1600 and writes the result is as follows

A .S .O T. test = + ve positive

Titer = 1600 I .U. / Ml

These bacteria streptococcus pyogens cause tonsillitis Tonsilitis and so they will cause inflammation of the heart valves, as well as cause inflammation of the joints because the immune complexes arising from the put poison these bacteria, which are poisons streptolysine will nominate these complexes immune complexes in the same flow slow areas and also in the joints and heart valves, causing received Doing so will lead to arthritis