

Lec. 12

CRP Test

is a protein found in the serum of patients with Pneumonia and discovered the protein by the world Tillet and Francis, who are found that this protein forms a complex with the C-polysaccharide Pneumococcus bacteria

Protein features (properties of crp)

1-is a protein is naturally appears in the blood of patients in acute cases of various diseases and is not found in the blood of healthy people

2-is heat-stable and crashing at a temperature of 70 for 30 minutes

3-does not reflect or do not pass through the placenta

4-increases the protein Links degree after an injury and up to a high degree in 14-16 hours after infection and disease attack

5-disappears after recovery from the condition

***The protein is found consistently in**

1-Bacterial infection

2-Active Rheumatic fever

3-Acute myocardial infraction

4-wide spread malignant disease

***And there is jointly and on the whole in**

1-Active Rheumatoid arthritis

2-Viral infection

3-T.B

Principle of examination

Tests to detect this protein as an antigen and antibody dependent with adding any of the (CRP) mean (Anti-CRP) be connected to the latex particles. When mixing this reagent with serum containing the antigen while stirring it will happen granularity agglutination, and this shows that the positive test and the lack of granularity indication that a negative test

Latex allergy is to be 6mg ./L and can be examined levels of CRP up to 1000mg./L

There can be the CRP after surgery and after blood transfusion in large quantities operations

The ESR differs from the CRP

1-The ESR does not rise in severe cases only, but in chronic inflammatory conditions

2-brings the ESR in non-inflammatory conditions such as anemia and pregnancy

3-is characterized by the ESR that it may be normal in the presence and effectiveness of Ruthenic heart deficit

4-CRP is considered the best indicator of the patient's response to treatment after recovery

Writing and report the result of this test are *

C-Reactive Protein test = Positive (+)

C-Reactive Protein test = Negative (-)