



# PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

# A PIONEER DIAGNOSTIC CENTRE

**■** 0171-2532620, 8222896961 **■** pkrjainhealthcare@gmail.com

REPORTING DATE

: 04/Sep/2024 01:52PM

**NAME** : Mrs. AMANDEEP KAUR

AGE/ GENDER : 25 YRS/FEMALE **PATIENT ID** : 1601600

**COLLECTED BY** REG. NO./LAB NO. : 122409040008

REFERRED BY **REGISTRATION DATE** : 04/Sep/2024 11:50 AM BARCODE NO. **COLLECTION DATE** : 04/Sep/2024 11:53AM : 12504486

**CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

: P.K.R JAIN HEALTHCARE INSTITUTE

Test Name Value Unit **Biological Reference interval** 

# **HAEMATOLOGY**

### **ERYTHROCYTE SEDIMENTATION RATE (ESR)**

12 ERYTHROCYTE SEDIMENTATION RATE (ESR) mm/1st hr 0 - 20

by MODIFIED WESTERGREN AUTOMATED METHOD

#### INTERPRETATION:

CLIENT CODE.

- 1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto-immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.

  2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such
- 3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus

#### CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. NOTE:

- 1. ESR and C reactive protein (C-RP) are both markers of inflammation.
- 2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

  3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.

- 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
- 6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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REPORTING DATE

: 04/Sep/2024 08:11PM

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## **ENDOCRINOLOGY**

### ANGIOTENSIN CONVERTING ENZYME (ACE): SERUM

ANGIOTENSIN CONVERTNG ENZYME (ACE): SERUM 13.8 U/L 8.0 - 52.0

by FURYLACRYLOYLPHENYLALANYGLYCYLGLYCINE (FAPPG)

#### **INTERPRETATION**

CLIENT CODE.

1. Angiotensin converting Enzyme (ACE) also known as kinase II, is present in many cells types such as neuronal cells, renal proximal tubular cells, and mostly in endothelial cells.

2.Angiotensin converting enzyme (ACE) modulates peripheral vascular resistance as well as renal and cardiovascular function. It is responsible for conversion of Angiotensin I to Angiotensin II as well as inactivation of bradykinin

3.It is attached to endothelial surface membrane by an anchor peptide and can be cleaved to be released into the blood circulation as soluble enzyme. Serum ACE activity is significantly elevated in patients with untreated active disease.

4. Majority of ACE is tissue bound (> 90%) found predominantly in lungs & testes

5.1t has been established as an important diagnostic parameter in Sarcoidosis. Spontaneous or induced remission of sarcoidosis has been seen, by decreasing serum ACE values.

#### **FACTORS AFFECTING ACE LEVELS:**

1.Smoking - ACE activity is 30% lower in smokers

2. Thyroid hormone- Stimulates ACE synthesis

3.Postmenopausal estrogen replacement - ACE activity is 20% lower

1. Sarcoidosis – ACE levels are used in the diagnosis and monitoring of this disease and are directly related to the number of organs affected and activity of granulomas. Mature granulomas produce less ACE than developing ones. ACE is more likely to be elevated with pulmonary involvement than with purely hilar adenopathy.

2.Pulmonary causes like Emphysema, Asthma, Small cell carcinoma & Squamous cell carcinoma, Idiopathic pulmonary fibrosis

3.Renal diseases – patients on hemodialysis show high ACE levels as compared to patients who are not on dialysis, chronic renal failure

4.Other causes – Multiple sclerosis, Addison's disease, Hyperthyroidism, Diabetes Alcoholic hepatitis & Cirrohosis & Peptic ulcer, histoplasmosis, hodgkins disease, gauchers disease, leprosy, amyloidosis, tuberculosis

5. Elevated ACE is thought to be a risk factor for myocardial infarction & cardiomyopathy.

7.ACE inhibitors have found wide spread application in treatment of systemic hypertension and Congestive Heart Failure (CHF). Monitoring of ACE may be beneficial to determine the optimum low dose of ACE inhibitor.

### **DECREASED LEVELS**

1.Chronic liver disease.

2. Anorexia nervosa

3. Hypothyroidism

To be correlated clinically



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\*\*\* End Of Report \*\*\*



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