



P K R JAIN HEALTHCARE INSTITUTE

NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

☎ 0171-2532620, 8222896961 ✉ pkrajainhealthcare@gmail.com

NAME : Mrs. KUSUM RANA
AGE/ GENDER : 61 YRS/FEMALE
COLLECTED BY :
REFERRED BY :
BARCODE NO. : 12503812
CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE
CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

PATIENT ID : 1561132
REG. NO./LAB NO. : 122407260008
REGISTRATION DATE : 26/Jul/2024 09:28 AM
COLLECTION DATE : 26/Jul/2024 09:34AM
REPORTING DATE : 26/Jul/2024 06:49PM

Test Name	Value	Unit	Biological Reference interval
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ENDOCRINOLOGY

ANGIOTENSIN CONVERTING ENZYME (ACE): SERUM

ANGIOTENSIN CONVERTING ENZYME (ACE): SERUM	23.1	U/L	8.0 - 52.0
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by FURYLLACRYLOYLPHENYLALANYLGLYCYLGLYCINE (FAPPG)

INTERPRETATION

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. It 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

INCREASED LEVELS:

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 & cirrhosis & Peptic ulcer, histoplasmosis, hodgekins 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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MOLECULAR PATHOLOGY

HUMAN LEUKOCYTE ANTIGEN (HLA)-B27 QUALITATIVE: RT- PCR

HUMAN LEUKOCYTE ANTIGEN (HLA)-B27 PCR

NEGATIVE (-ve)

by RT-PCR (REAL TIME-POLYMERASE CHAIN REACTION)

INTERPRETATION:

- 1.HLA B-27 is a major histocompatibility complex (MHC) class I molecule. MHC class I molecules are cell surface glycoproteins that are expressed on most nucleated human cells and platelets.
- 2.HLA molecules can be divided into HLA Class I and Class II.
- 3.The presence of HLA-27 antigen is strongly associated with ankylosing spondylitis (AS), a chronic inflammatory disease of the axial musculoskeletal system and a few other rheumatic disorders (Reiter's syndrome, acute anterior uveitis and inflammatory bowel disease).
- 4.HLA-B27 testing is routinely used to screen for AS since 90% of patients with AS have the HLA-B27 surface antigen compared to only 8% of healthy individuals.
- 5.Correlation with clinical and other hematological parameters is advised.

NOTE:

Extraction Done on US FDA Approved Fully Automated Extraction system & CE IVD Approved RT-PCR System & Kits

*** End Of Report ***



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