

PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

: Mr. SATNAM SINGH		
: 61 YRS/MALE	PATIENT ID	: 1660148
:	REG. NO./LAB NO.	: 122411040019
:	REGISTRATION DATE	: 04/Nov/2024 12:52 PM
: 12505435	COLLECTION DATE	:04/Nov/2024 12:58PM
: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	:04/Nov/202401:58PM
: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	
Value	Unit	Biological Reference interval
-	: 61 YRS/MALE : : : 12505435 : P.K.R JAIN HEALTHCARE INSTITUTE : NASIRPUR, HISSAR ROAD, AMBALA CITY -	 : 61 YRS/MALE : 61 YRS/MALE : REG. NO./LAB NO. : REGISTRATION DATE : 12505435 : COLLECTION DATE : P.K.R JAIN HEALTHCARE INSTITUTE : REPORTING DATE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

HAEMATOLOGY

ERYTHROCYTE SEDIMENTATION RATE (ESR)

ERYTHROCYTE SEDIMENTATION RATE (ESR	2) 22^H	mm/1st hr	0 - 20
by RED CELL AGGREGATION BY CAPILLARY PHOTOM	METRY		

INTERPRETATION:

1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autoimmune 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 as C-reactive protein

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:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 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



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



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

A PIONEER DIAGNOSTIC CENTRE

🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. SATNAM SINGH			
AGE/ GENDER	: 61 YRS/MALE		PATIENT ID	: 1660148
COLLECTED BY	:		REG. NO./LAB NO.	: 122411040019
REFERRED BY	:		REGISTRATION DATE	: 04/Nov/2024 12:52 PM
BARCODE NO.	: 12505435		COLLECTION DATE	:04/Nov/2024 12:58PM
CLIENT CODE.	: P.K.R JAIN HEALTHCA	ARE INSTITUTE	REPORTING DATE	:04/Nov/202401:58PM
CLIENT ADDRESS	: NASIRPUR, HISSAR R	OAD, AMBALA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	C	LINICAL CHEMI	STRY/BIOCHEMIS	I'RY
		CHOLEST	FEROL: SERUM	
CHOLESTEROL TO by CHOLESTEROL O	THE DEIVOINT	CHOLES 123.65	T EROL: SERUM mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
by CHOLESTEROL O	THE DEIVOINT			OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0
interpretation:	THE DEIVOINT	123.65		OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
INTERPRETATION:	PID ASSOCIATION	123.65 CHOLESTEROL IN	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0

HIGH	>= 240.0	>= 200.0
NOTE:		
1. Measurements in the same patient can show	w physiological & analytical variations. Three s	erial samples 1 week apart are recommended f

Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per National Lipid association - 2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)





A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. SATNAM SINGH				
AGE/ GENDER	: 61 YRS/MALE		ENT ID	: 1660148	
COLLECTED BY	FERRED BY :		NO./LAB NO.	: 122411040019 : 04/Nov/2024 12:52 PM : 04/Nov/2024 12:58PM	
REFERRED BY			STRATION DATE		
BARCODE NO.			ECTION DATE		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE REPC	RTING DATE	:04/Nov/202401:58PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	AMBALA CITY - HARYANA			
Test Name		Value	Unit	Biological Reference interval	
		URIC AC	D		
URIC ACID: SERUM		4.03	mg/dL	3.60 - 7.70	
by URICASE - OXIDASE	PEROXIDASE		-		
INTERPRETATION:- 1.GOUT occurs when 2.Uric Acid is the end intestinal tract by mic INCREASED:- (A).DUE TO INCREASED 1.Idiopathic primary (high levels of Uric Acid in the bloc product of purine metabolism . Ur robial degradation. • PRODUCTION:-	od cause crystals to fo ric acid is excreted to	rm & accumulate arc a large degree by the	ound a joint. kidneys and to a smaller degree in the	





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) MBBS , MD (PATHOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE





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

A PIONEER DIAGNOSTIC CENTRE 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. SATNAM SINGH		
AGE/ GENDER	: 61 YRS/MALE	PATIENT ID	: 1660148
COLLECTED BY	:	REG. NO./LAB NO.	: 122411040019
REFERRED BY	:	REGISTRATION DATE	: 04/Nov/2024 12:52 PM
BARCODE NO.	: 12505435	COLLECTION DATE	: 04/Nov/2024 12:58PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	:04/Nov/202401:58PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		
Test Name	Value	Unit	Biological Reference interval

CALCIUM						
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.74	mg/dL	8.50 - 10.60			

INTERPRETATION:-

1.Serum calcium (total) estimation is used for the diagnosis and monitoring of a wide range of disorders including diseases of bone, kidney, parathyroid gland, or gastrointestinal tract.

2. Calcium levels may also reflect abnormal vitamin D or protein levels.

3. The calcium content of an adult is somewhat over 1 kg (about 2% of the body weight). Of this, 99% is present as calcium hydroxyapatite in bones and <1% is present in the extra-osseous intracellular space or extracellular space (ECS).

4. In serum, calcium is bound to a considerable extent to proteins (approximately 40%), 10% is in the form of inorganic complexes, and 50% is present as free or ionized calcium.

NOTE:-Calcium ions affect the contractility of the heart and the skeletal musculature, and are essential for the function of the nervous system. In addition, calcium ions play an important role in blood clotting and bone mineralization.

HYPOCALCEMIA (LOW CALCIUM LEVELS) CAUSES :-

1. Due to the absence or impaired function of the parathyroid glands or impaired vitamin-D synthesis.

2. Chronic renal failure is also frequently associated with hypocalcemia due to decreased vitamin-D synthesis as well as hyperphosphatemia and skeletal resistance to the action of parathyroid hormone (PTH).

3. NOTE:- A characteristic symptom of hypocalcemia is latent or manifest tetany and osteomalacia.

HYPERCALCEMIA (INCREASE CALCIUM LEVELS) CAUSES:-

1.Increased mobilization of calcium from the skeletal system or increased intestinal absorption.

2. Primary hyperparathyroidism (pHPT)

3.Bone metastasis of carcinoma of the breast, prostate, thyroid gland, or lung

NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.

*** End Of Report ***





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

