

Dr. Vinay Chopra
 MD (Pathology & Microbiology)
 Chairman & Consultant Pathologist

Dr. Yugam Chopra
 MD (Pathology)
 CEO & Consultant Pathologist

NAME	: Mr. NEERAJ	PATIENT ID	: 1598972
AGE/ GENDER	: 29 YRS/MALE	REG. NO./LAB NO.	: 012409020036
COLLECTED BY	:	REGISTRATION DATE	: 02/Sep/2024 10:47 AM
REFERRED BY	:	COLLECTION DATE	: 02/Sep/2024 11:00AM
BARCODE NO.	: 01516169	REPORTING DATE	: 02/Sep/2024 11:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
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CLINICAL CHEMISTRY/BIOCHEMISTRY

URIC ACID

URIC ACID: SERUM 6.85 mg/dL 3.60 - 7.70

by URICASE - OXIDASE PEROXIDASE

INTERPRETATION:-

1.GOUT occurs when high levels of Uric Acid in the blood cause crystals to form & accumulate around a joint.
 2.Uric Acid is the end product of purine metabolism . Uric acid is excreted to a large degree by the kidneys and to a smaller degree in the intestinal tract by microbial degradation.

INCREASED:-

(A).DUE TO INCREASED PRODUCTION:-

- 1.Idiopathic primary gout.
- 2.Excessive dietary purines (organ meats,legumes,anchovies, etc).
- 3.Cytolytic treatment of malignancies especially leukemias & lymphomas.
- 4.Polycythemia vera & myeloid metaplasia.
- 5.Psoriasis.
- 6.Sickle cell anaemia etc.

(B).DUE TO DECREASED EXCRETION (BY KIDNEYS)

- 1.Alcohol ingestion.
- 2.Thiazide diuretics.
- 3.Lactic acidosis.
- 4.Aspirin ingestion (less than 2 grams per day).
- 5.Diabetic ketoacidosis or starvation.
- 6.Renal failure due to any cause etc.

DECREASED:-

(A).DUE TO DIETARY DEFICIENCY

- 1.Dietary deficiency of Zinc, Iron and molybdenum.
- 2.Fanconi syndrome & Wilsons disease.
- 3.Multiple sclerosis .
- 4.Syndrome of inappropriate antidiuretic hormone (SIADH) secretion & low purine diet etc.

(B).DUE TO INCREASED EXCRETION

- 1.Drugs:-Probenecid , sulphinpyrazone, aspirin doses (more than 4 grams per day), corticosteroids and ACTH, anti-coagulants and estrogens etc.





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CLINICAL PATHOLOGY SEMEN ANALYSIS/SEMINOGRAM

PHYSICAL EXAMINATION

TIME OF SPECIMEN COLLECTION	02-09-2024	AM/PM	
DURATION OF ABSTINENCE	3 DAYS	DAYS	2 - 7
TYPE OF STONE	FRESH		
LIQUIFACTION TIME AT 37°C	< 30 MINS	MINS	30 - 60
VOLUME	1	ML	
COLOUR	WHITISH OPAQUE		WHITISH OPAQUE
VISCOSITY	MILDLY VISCOUS		VISCOUS
pH	8 ^H		5.0 - 7.5

AUTOMATED SEMEN ANALYSIS, GOLD STANDARD, WHO APPROVED (SQA GOLD)

TOTAL SPERM CONCENTRATION	11.5	Millions/mL	12 - 16
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL MOTILITY (GRADE A + GRADE B + GRADE C)	18	%	> = 42.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
RAPIDLY PROGRESSIVE MOTILITY (GRADE A)	1	%	> = 30.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
SLOWLY PROGRESSIVE MOTILITY (GRADE B)	0	%	>= 30
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
NON PROGRESSIVE MOTILITY (GRADE C)	17	%	<= 1
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
IMMOTILE	82	%	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
MORPHOLOGY NORMAL	1	%	> = 4.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
MOTILE SPERM CONCENTRATION	2.1	Millions/mL	> = 6.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION	0.1	Millions/mL	> = 5.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION	0	Millions/mL	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			




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FUNCTIONAL SPERM CONCENTRATION <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	0	Millions/mL	
SPERM MOTILE INDEX (SMI) <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	1		> = 80
TOTAL PER EJACULATION			
TOTAL SPERM NUMBER <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	11.5	Millions/ejc.	> = 39.0
TOTAL MOTILE SPERM <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	2.1	Millions/ejc.	> = 16.0
TOTAL PROGRESSIVE MOTILE SPERM <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	0.1	Millions/ejc.	> = 12.0
TOTAL FUNCTIONAL SPERM <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	0	Millions/ejc.	
TOTAL MORPHOLOGY NORMAL SPERM <i>by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM</i>	0.1	Millions/ejc.	> = 2.0
MANUAL MICROSCOPY AND MORPHOLOGY			
VITALITY <i>by MICROSCOPY</i>	63	%	
RED BLOOD CELLS (RBCs) <i>by MICROSCOPY</i>	0-3	/HPF	NOT DETECTED
PUS CELLS <i>by MICROSCOPY</i>	2-4	/HPF	0 - 5
EPITHELIAL CELLS <i>by MICROSCOPY</i>	0-2	/HPF	ABSENT
AGGLUTINATES <i>by MICROSCOPY</i>	NOT DETECTED		NOT DETECTED
AMORPHOUS DEPOSITS/ROUND CELLS/DEBRIS <i>by MICROSCOPY</i>	NOT DETECTED		NOT DETECTED
BACTERIA <i>by MICROSCOPY</i>	NEGATIVE (-ve)		NEGATIVE (-ve)
HEAD DEFECTS <i>by MICROSCOPY</i>	39	%	
PIN HEADS <i>by MICROSCOPY</i>	8	%	
NECK AND MID-PIECE DEFECTS <i>by MICROSCOPY</i>	28	%	




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TAIL DEFECTS by MICROSCOPY	20	%	
CYTOPLASMIC DROPLETS by MICROSCOPY	2	%	
ACROSOME/NUCLEUS DEFECTS by MICROSCOPY	2	%	
CHEMICAL EXAMINATION			
SEMEN FRUCTOSE (QUALITATIVE) by QUALITATIVE METHOD USING RESORCINOL	POSITIVE (+ve)		POSITIVE (+ve)

INTERPRETATION:

1. Fructose is the energy source for sperm motility. A positive fructose is considered normal.
 2. Azoospermia and fructose negative results may indicate an absence of seminal vesicles / vas deferens in the area of seminal vesicles / obstruction of seminal vesicles.

*** End Of Report ***





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