



| | Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta | robiology) | M | am Chopra D (Pathology) ant Pathologist |
|---|---|-------------------|--------------------------|--|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | | PATIENT ID | : 1555006 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | :01513488 | | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 20/Jul/2024 10:30AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AME | BALA CANTT | 2 | |
| Test Name | | Value | Unit | Biological Reference interval |
| | SWAS | THYA WE | ELLNESS PANEL: 1. | 5 |
| | CON | /IPLETE BL | OOD COUNT (CBC) | |
| RED BLOOD CELLS (F | RBCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (HB) |) | 15.4 | gm/dL | 12.0 - 17.0 |
| by CALORIMETRIC | | | | |
| RED BLOOD CELL (RE | SC) COUNT FOCUSING, ELECTRICAL IMPEDENCE | 5.52 ^H | Million | s/cmm 3.50 - 5.00 |
| PACKED CELL VOLUN | /IE (PCV) | 47.1 | % | 40.0 - 54.0 |
| - | | | e e | 80.0 100.0 |
| MEAN CORPUSCULA by CALCULATED BY A | K VOLUIVIE (IVICV) AUTOMATED HEMATOLOGY ANALYZER | 85.2 | fL | 80.0 - 100.0 |
| | R HAEMOGLOBIN (MCH) | 27.8 | pg | 27.0 - 34.0 |
| | UTOMATED HEMATOLOGY ANALYZER | 22.7 | a (di | 22.0.24.0 |
| | R HEMOGLOBIN CONC. (MCHC) | 32.7 | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIBUT | TON WIDTH (RDW-CV) | 13.3 | % | 11.00 - 16.00 |
| - | AUTOMATED HEMATOLOGY ANALYZER | 10 / | | |
| | TON WIDTH (RDW-SD) | 42.6 | fL | 35.0 - 56.0 |
| MENTZERS INDEX | | 15.43 | RATIO | BETA THALASSEMIA TRAIT: < 13 |
| by CALCULATED | | | | IRON DEFICIENCY ANEMIA: >13 |
| GREEN & KING INDE | X | 20.46 | RATIO | BETA THALASSEMIA TRAIT: < = |
| by CALCULATED | | | | 65.0 IRON DEFICIENCY ANEMIA: > 65 |
| WHITE BLOOD CELLS | <u>S (WBCS)</u> | | | inon benolenor AntivitA. 200 |
| TOTAL LEUCOCYTE C | | 9310 | /cmm | 4000 - 11000 |
| by FLOW CYTOMETRY | Y BY SF CUBE & MICROSCOPY | | | |
| NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY | DOD CELLS (nRBCS) AUTOMATED HEMATOLOGY ANALYZER & | NIL | | 0.00 - 20.00 |
| NUCLEATED RED BLO | DOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER & | NIL | % | < 10 % |



an

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt - 133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



: Mr. MANPREET SINGH

NAME



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

CEO & Consultant Pathologist

. . . .

| | • | | |
|--------------------|---|--------------------------|------------------------|
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | :01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 10:30AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANTT | , | |
| | | | |

...

| Test Name | Value | Unit | Biological Reference interval |
|--|-------------------|------|-------------------------------|
| DIFFERENTIAL LEUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 54 | % | 50 - 70 |
| LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 29 | % | 20 - 40 |
| EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 12 ^H | % | 1-6 |
| MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 5 | % | 2 - 12 |
| BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT | 0 | % | 0 - 1 |
| ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 5027 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 2700 | /cmm | 800 - 4900 |
| ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 1117 ^H | /cmm | 40 - 440 |
| ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 466 | /cmm | 80 - 880 |
| ABSOLUTE BASOPHIL COUNT by flow cytometry by sf cube & microscopy PLATELETS AND OTHER PLATELET PREDICTIVE MARKE | 0 E RS. | /cmm | 0 - 110 |
| PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence | 329000 | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 0.31 | % | 0.10 - 0.36 |
| MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence | 10 | fL | 6.50 - 12.0 |
| PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence | 75000 | /cmm | 30000 - 90000 |
| PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence | 22.8 | % | 11.0 - 45.0 |
| PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | 16.1 | % | 15.0 - 17.0 |



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

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







| | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog | | (Pathology) |
|--------------------|--|--------------------------|-------------------------------|
| NAME | : Mr. MANPREET SINGH | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 10:30AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANT | Т | |
| | | | |
| Test Name | Value | Unit | Biological Reference interval |



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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







| | Dr. Vinay Ch MD (Pathology & Chairman & Cor | Microbiology) | Dr. Yugam MD O & Consultant | (Pathology) |
|-----------------------------------|---|--------------------------|-----------------------------------|-------------------------------|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT 1 | D | : 1555006 |
| COLLECTED BY | : | REG. NO./ | LAB NO. | : 012407200036 |
| REFERRED BY | : | REGISTRA | TION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLECTI | ON DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTIN | IG DATE | : 20/Jul/2024 02:39PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | G | LYCOSYLATED HAEMOGLOE | BIN (HBA1C) | |
| GLYCOSYLATED HAEM(WHOLE BLOOD | OGLOBIN (HbA1c): | 5.4 | % | 4.0 - 6.4 |
| ESTIMATED AVERAGE F | , | 108.28 | mg/dL | 60.00 - 140.00 |
| | AS PER AMERICAN DIA | BETES ASSOCIATION (ADA): | | |
| RE | FERENCE GROUP | GLYCOSYLATED HEMO | GLOGIB (HBAIC) ii | n % |
| Non diab | etic Adults >= 18 years | <5. | | |
| At F | Risk (Prediabetes) | 5.7 - | | |
| Dia | gnosing Diabetes | >= (| | |
| | | Age > 19 | | |
| There is | | Goals of Therapy: | < 7.0 | j |

COMMENTS:

1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of

Age < 19 Years

Actions Suggested:

Goal of therapy:

>8.0

<7.5

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled. 3.Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4.High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





Therapeutic goals for glycemic control

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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com

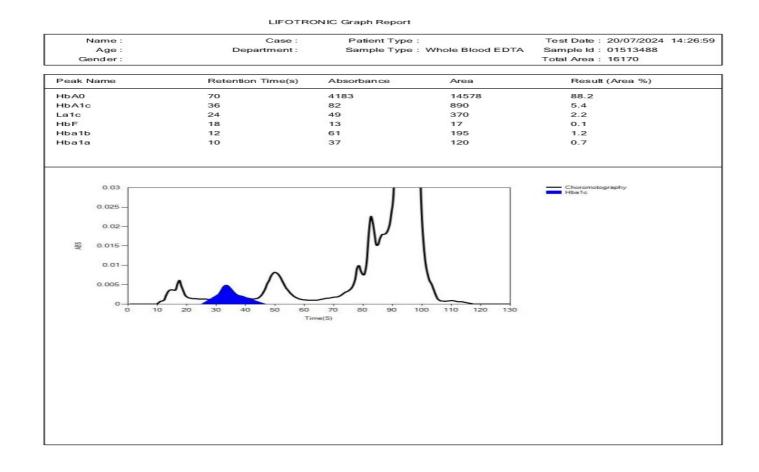


Page 4 of 23





| Test Name | | Value Unit | Biological Reference interval |
|--------------------|---|--------------------------|-------------------------------|
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBA | ILA CANT I | |
| CLIENT ADDDECC | 2040/1 NICHOLCON DOAD AMDA | LA CANTT | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 02:39PM |
| BARCODE NO. | : 01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| NAME | : Mr. MANPREET SINGH | | |
| | Chairman & Consultant | C, / | |
| | Dr. Vinay Chopra MD (Pathology & Micro | | m Chopra D (Pathology) |





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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | Dr. Vinay Cho j MD (Pathology & M Chairman & Consu | licrobiology) | Dr. Yugam MD (CEO & Consultant | (Pathology) |
|--|--|--|---|---|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIE | NT ID | : 1555006 |
| COLLECTED BY | : | REG. N | O./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGIST | FRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | :01513488 | COLLE | CTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | TING DATE | : 20/Jul/2024 10:37AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | FRVTHR | OCYTE SEDIMENT | TION PATE (FSE | 2 |
| by MODIFIED WESTER NTERPRETATION: . ESR is a non-specifi mmune disease, but 4 2. An ESR can be affect is C-reactive protein 3. This test may also b ystemic lupus erythe CONDITION WITH LOV A low ESR can be seer polycythaemia), sign is sickle cells in sickle NOTE: . ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav b. Drugs such as dextri | does not tell the health practitione ted by other conditions besides in the used to monitor disease activity matosus V ESR n with conditions that inhibit the n ificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CRI by as many other factors as is ESR, d, it is typically a result of two typ (e a higher ESR, and menstruation | er exactly where the ini iflammation. For this re- and response to thera normal sedimentation of the (leucocytosis), and cont (leucocytosis), and | lammation is in the eason, the ESR is typ upy in both of the ak of red blood cells, su some protein abnor inflammation or as ker of inflammation is or fibrinogen. se temporary eleval | on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count malities. Some changes in red cell shape (such it resolves. |
| | | | | |





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

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







| | Dr. Vinay Cl MD (Pathology & Chairman & Cor | | Dr. Yugam MD CEO & Consultant | (Pathology) |
|--------------------|---|--------------|-------------------------------------|-------------------------------|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | I | PATIENT ID | : 1555006 |
| COLLECTED BY | : | I | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | I | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | (| COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | I | REPORTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| Test Name | CLIN | | Unit FRY/BIOCHEMISTR | |
| Test Name | CLIN | | | |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



Page 7 of 23





| | Dr. Vinay Cl MD (Pathology Chairman & Co | | Dr. Yugam MD CEO & Consultant | (Pathology) |
|---|--|---------------------|-------------------------------------|--|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIE | NT ID | : 1555006 |
| COLLECTED BY | : | REG. N | O./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGIS | FRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLE | CTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPOR | TING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | LIPID PROFILE : | BASIC | |
| CHOLESTEROL TOTAL | | 202.62 ^H | mg/dL | OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 |
| TRIGLYCERIDES: SERU | JM hate oxidase (enzymatic) | 61.96 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROL (E by SELECTIVE INHIBITION | | 62.25 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROL: S by CALCULATED, SPEC | | 127.98 | mg/dL | OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTER by CALCULATED, SPE | | 140.37 ^H | mg/dL | OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL: | | 12.39 | mg/dL | 0.00 - 45.00 |
| by CALCULATED, SPEC TOTAL LIPIDS: SERUN by CALCULATED, SPEC | Λ | 467.2 | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HDL R by CALCULATED, SPEC | ATIO: SERUM | 3.25 | RATIO | LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 |
| LDL/HDL RATIO: SERI | | 2.06 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |

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

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





| | | h opra & Microbiology) nsultant Pathologist | Dr. Yugam MD CEO & Consultant | (Pathology) |
|------------------|--------------------------|--|-------------------------------------|-------------------------------|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PATI | ENT ID | : 1555006 |
| COLLECTED BY | : | REG. | NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGI | STRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | :01513488 | COLL | ECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| TRIGLYCERIDES/HD | | 1 ^L | RATIO | 3.00 - 5.00 |

INTERPRETATION:

1. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-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.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology)

| NAME | : Mr. MANPREET SINGH | | | |
|---------------------|--------------------------|----------------|--------------------------|-------------------------------|
| AGE/ GENDER | : 26 YRS/MALE | | PATIENT ID | : 1555006 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD |), AMBALA CANT | Т | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | LIVER FUNCTIO | ON TEST (COMPLETE) | |
| BILIRUBIN TOTAL: S | | 0.35 | mg/dL | INFANT: 0.20 - 8.00 |
| by DIAZOTIZATION SI | DECTRODHOTOMETRV | | | |

Dr. Vinay Chopra

MD (Pathology & Microbiology)

| BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry | 0.35 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
|--|-------------------|-------|---|
| BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY | 0.14 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry | 0.21 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE | 22.41 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE | 24.46 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SERUM by Calculated, spectrophotometry | 0.92 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHATASE: SERUM by Para nitrophenyl phosphatase by amino methyl propanol | 73 | U/L | 40.0 - 150.0 |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry | 19 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY | 7.19 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL GREEN | 4.92 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM by calculated, spectrophotometry | 2.27 ^L | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUM by calculated, spectrophotometry | 2.17 ^H | RATIO | 1.00 - 2.00 |

INTERPRETATION NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

| DRUG HEPATOTOXICITY | > 2 |
|--|----------------------------|
| ALCOHOLIC HEPATITIS | > 2 (Highly Suggestive) |
| CIRRHOSIS | 1.4 - 2.0 |
| INTRAHEPATIC CHOLESTATIS | > 1.5 |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) |
| | |





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com





| | Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant P | niology) MD | n Chopra D (Pathology) It Pathologist |
|--------------------|--|--------------------------|---|
| NAME | : Mr. MANPREET SINGH | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBAL | A CANTT | |
| | | | |
| Test Name | V | alue Unit | Biological Reference interval |

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

| PROGNOSTIC | SIGNIFICANCE: |
|------------|---------------|
| | |

| NORMAL | < 0.65 |
|----------------------|-----------|
| GOOD PROGNOSTIC SIGN | 0.3 - 0.6 |
| POOR PROGNOSTIC SIGN | 1.2 - 1.6 |
| | |



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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







Dr. Yugam Chopra

| | Dr. Vinay Cho MD (Pathology & Chairman & Cons | Microbiology) | Dr. Tugam MD CEO & Consultant | (Pathology) |
|---|---|---------------|-------------------------------------|-------------------------------|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PA | TIENT ID | : 1555006 |
| COLLECTED BY | : | RE | G. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | RE | GISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | :01513488 | CO | LLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | RE | PORTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | KID | NEY FUNCTION | TEST (COMPLETE) | |
| UREA: SERUM | | 29.03 | mg/dL | 10.00 - 50.00 |
| | ATE DEHYDROGENASE (GLDH) | | | |
| CREATININE: SERUN by ENZYMATIC, SPEC | | 1.23 | mg/dL | 0.40 - 1.40 |
| BLOOD UREA NITRO | GEN (BUN): SERUM | 13.57 | mg/dL | 7.0 - 25.0 |
| by CALCULATED, SPE | | 11.00 | DATIO | 10.0. 20.0 |
| RATIO: SERUM | GEN (BUN)/CREATININE | 11.03 | RATIO | 10.0 - 20.0 |
| by CALCULATED, SPE | CTROPHOTOMETRY | | | |
| | | 23.6 | RATIO | |
| by CALCULATED, SPE URIC ACID: SERUM | CIROPHOTOMETRY | 6.4 | mg/dL | 3.60 - 7.70 |
| by URICASE - OXIDAS | E PEROXIDASE | | | |
| CALCIUM: SERUM by ARSENAZO III, SPE | CTROPHOTOMETRY | 9.58 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SER | | 3.86 | mg/dL | 2.30 - 4.70 |
| - | ATE, SPECTROPHOTOMETRY | | | |
| ELECTROLYTES | | | | |
| SODIUM: SERUM by ISE (ION SELECTIV | E ELECTRODE) | 142.1 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUM | | 4.11 | mmol/L | 3.50 - 5.00 |
| by ISE (ION SELECTIV | E ELECTRODE) | 10/ 57 | | 00.0 110.0 |
| CHLORIDE: SERUM by ISE (ION SELECTIV | E ELECTRODE) | 106.57 | mmol/L | 90.0 - 110.0 |
| | RULAR FILTERATION RATE | | | |
| ESTIMATED GLOME | RULAR FILTERATION RATE | 83 | | |

Dr. Vinay Chopra

(eGFR): SERUM by CALCULATED

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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

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

DR.YUGAM CHOPPA







| 5001.2500 0ENT | | | | | | |
|--|--|--|-------------------------------|--------------------|--|--------------------------|
| | | Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant | obiology) | | m Chopra D (Pathology) nt Pathologist | |
| IAME | : Mr. MANP | REET SINGH | | | | |
| AGE/ GENDER | : 26 YRS/MA | ALE. | РАТ | IENT ID | : 1555006 | |
| | | | | | | |
| COLLECTED BY | : | | | NO./LAB NO. | : 012407200036 | |
| EFERRED BY | : | | | ISTRATION DATE | : 20/Jul/2024 10:05 | |
| SARCODE NO. | :01513488 | | COL | LECTION DATE | : 20/Jul/2024 10:09 | AM |
| LIENT CODE. | : KOS DIAGN | JOSTIC LAB | REP | ORTING DATE | : 20/Jul/2024 11:14 | AM |
| LIENT ADDRESS | : 6349/1, N | ICHOLSON ROAD, AMBA | LA CANTT | | | |
| | | | | | | |
| est Name | | | Value | Unit | Biological | Reference interval |
| . Prerenal azotemia ECREASED RATIO (< . Acute tubular necr . Low protein diet al . Severe liver diseas . Other causes of de . Repeated dialysis (. Inherited hyperam | superimposed 10:1) WITH DEC osis. nd starvation. e. ecreased ureas (urea rather th monemias (ur | CREASED BUN : | ut of extracellula blood). | r fluid). | aury). | |
| . Phenacimide thera . Rhabdomyolysis (r . Muscular patients VAPPROPIATE RATIO . Diabetic ketoacido hould produce an in | apy (accelerate eleases muscl who develop i c sis (acetoacet icreased BUN/ | renal failure. ate causes false increase | in creatinine wi | th certain methodo | logies,resulting in norma | ıl ratio when dehydratio |
| STIMATED GLOMERU | | ON RATE: | | | | 1 |
| CKD STAGE G1 | | DESCRIPTION ormal kidney function | GFR (mL/mi | | SSOCIATED FINDINGS No proteinuria | 4 |
| G1 G2 | | Kidney damage with | >9 | | Presence of Protein , | 4 |
| 02 | | normal or high GFR | | | bumin or cast in urine | |
| G3a | 1 | Vild decrease in GFR | 60 - | | | 1 |
| G3b | Mo | oderate decrease in GFR | 30- | | |] |
| C1 | c | overe decrease in CEP | 15 | 20 | | 1 |

G4

G5

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

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

Severe decrease in GFR

Kidney failure

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

15-29

<15

Page 13 of 23

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com





| | Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant | biology) MI | m Chopra D (Pathology) ht Pathologist |
|--------------------|--|--------------------------|---|
| NAME | : Mr. MANPREET SINGH | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBAI | LA CANTT | |
| Test Name | | Value Unit | Biological Reference interval |

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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

MBBS, MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







| | Dr. Vinay Cho MD (Pathology & I Chairman & Const | Microbiology) | Dr. Yugam MD (CEO & Consultant | (Pathology) |
|---------------------------------------|--|-------------------|---------------------------------------|-------------------------------|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PATI | ENT ID | : 1555006 |
| COLLECTED BY | : | REG. 1 | NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGIS | STRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLL | ECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE | : 20/Jul/2024 11:14AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | IRON PROI | FILE | |
| IRON: SERUM | | 62.2 ^L | μg/dL | 65.0 - 175.0 |
| • | N BINDING CAPACITY (UIBC) | 249 | μg/dL | 150.0 - 336.0 |
| TOTAL IRON BINDIN SERUM | IG CAPACITY (TIBC) | 311.2 | μg/dL | 230 - 430 |
| %TRANSFERRIN SAT | URATION: SERUM | 19.99 | % | 15.0 - 50.0 |
| TRANSFERRIN: SERU by SPECTROPHOTON | JM | 220.95 | mg/dL | 200.0 - 350.0 |

INTERPRETATION:-

| VARIABLES | ANEMIA OF CHRONIC DISEASE | IRON DEFICIENCY ANEMIA | THALASSEMIA α/β TRAIT |
|--|---------------------------|------------------------|-----------------------|
| SERUM IRON: | Normal to Reduced | Reduced | Normal |
| TOTAL IRON BINDING CAPACITY: Decreased | | Increased | Normal |
| % TRANSFERRIN SATURATION: | Decreased | Decreased < 12-15 % | Normal |
| SERUM FERRITIN: | Normal to Increased | Decreased | Normal or Increased |

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







| | Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta | robiology) | | (Pathology) |
|--|---|----------------|----------------------------------|---|
| IAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | | PATIENT ID | : 1555006 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 20/Jul/2024 11:19AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AME | SALA CANTI | ſ | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | ENDO | CRINOLOGY | |
| | THY | ROID FUN | CTION TEST: TOTAL | |
| TRIIODOTHYRONINI by CMIA (CHEMILUMIN | E (T3): SERUM vescent microparticle immunoassay | 0.768 | ng/mL | 0.35 - 1.93 |
| THYROXINE (T4): SE by CMIA (CHEMILUMIN | RUM vescent microparticle immunoassay | 5.55) | μgm/dL | 4.87 - 12.60 |
| | ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASSAY | 2.141 | μlU/mL | 0.35 - 5.50 |
| 3rd GENERATION, ULT <u>INTERPRETATION</u> : | RASENSITIVE | | | |
| day has influence on the trilodothyronine (T3).Fai | | nulates the pr | oduction and secretion of the me | <i>m. The variation is of the order of 50%.Hence time of t</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or |

overproduction(hyperthyroidism) of T4 and/or T3.

| CLINICAL CONDITION | T3 | T4 | TSH |
|------------------------------|-----------------------|-----------------------|---------------------------------|
| Primary Hypothyroidism: | Reduced | Reduced | Increased (Significantly) |
| Subclinical Hypothyroidism: | Normal or Low Normal | Normal or Low Normal | High |
| Primary Hyperthyroidism: | Increased | Increased | Reduced (at times undetectable) |
| Subclinical Hyperthyroidism: | Normal or High Normal | Normal or High Normal | Reduced |

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levies in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

| TRIIODOTH | YRONINE (T3) | THYROXINE (T4) | | THYROID STIMU | LATING HORMONE (TSH) |
|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|------------------------------|
| Age | Refferance Range (ng/mL) | Age | Refferance Range (μg/dL) | Age | Reference Range (µIU/mL) |
| 0 - 7 Days | 0.20 - 2.65 | 0 - 7 Days | 5.90 - 18.58 | 0 - 7 Days | 2.43 - 24.3 |
| 7 Days - 3 Months | 0.36 - 2.59 | 7 Days - 3 Months | 6.39 - 17.66 | 7 Days - 3 Months | 0.58 - 11.00 |
| 3 - 6 Months | 0.51 - 2.52 | 3 - 6 Months | 6.75 - 17.04 | 3 Days – 6 Months | 0.70 - 8.40 |





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

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



Page 16 of 2





| | Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho | | (Pathology) |
|--------------------|---|--------------------------|------------------------|
| NAME | : Mr. MANPREET SINGH | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 11:19AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CA | ANTT | |

| Test Name | | | Value | Unit | t | Biological Reference interva |
|---------------------|---------------|-----------------------|------------------|---------------------|-------------|------------------------------|
| 6 - 12 Months | 0.74 - 2.40 | 6 - 12 Months | 7.10 - 16.16 | 6 - 12 Months | 0.70 - 7.00 | |
| 1 - 10 Years | 0.92 - 2.28 | 1 - 10 Years | 6.00 - 13.80 | 1 – 10 Years | 0.60 - 5.50 | |
| 11-19 Years | 0.35 - 1.93 | 11 - 19 Years | 4.87- 13.20 | 11 – 19 Years | 0.50 - 5.50 | |
| > 20 years (Adults) | 0.35 - 1.93 | > 20 Years (Adults) | 4.87 - 12.60 | > 20 Years (Adults) | 0.35-5.50 | |
| | RECO | DMMENDATIONS OF TSH L | EVELS DURING PRE | GNANCY (µIU/mL) | - | |
| | 1st Trimester | | | 0.10 - 2.50 | | |
| | 2nd Trimester | | | 0.20 - 3.00 | | |
| | 3rd Trimester | | | 0.30 - 4.10 | | |

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester





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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog | | (Pathology) | |
|--|--|---|--|--|
| NAME | : Mr. MANPREET SINGH | | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 | |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407200036 | |
| REFERRED BY | : | REGISTRATION DATE | : 20/Jul/2024 10:05 AM | |
| BARCODE NO. | : 01513488 | COLLECTION DATE | : 20/Jul/2024 10:09AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Jul/2024 12:49PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANT | ГТ | | |
| Test Name | Value | Unit | Biological Reference interval | |
| ANTI | IMMUNOPAT HUMAN IMMUNODEFICIENCY VIRUS (| HOLOGY/SEROLOGY (HIV) DUO ULTRA WITH (| (P-24 ANTIGEN DETECTION) | |
| HIV 1/2 AND P24 AN by CMIA (CHEMILUMIN | TIGEN: SERUM 0.06 ESCENT MICROPARTICLE IMMUNOASSAY) | S/CO | NEGATIVE: < 1.00 POSITIVE: > 1.00 | |
| HIV 1/2 AND P24 AN by CMIA (CHEMILUMIN INTERPRETATION:- | TIGEN RESULT NON - R ESCENT MICROPARTICLE IMMUNOASSAY) | REACTIVE | | |
| | T (INDEX) | REMARKS | | |
| < 1. | | NON - REACTIVE | | |
| Non-Reactive result in exposed to HIV 1/2 i antibodies. Hence a N RECOMMENDATIONS 1. Results to be clinic | | he "window phase" i.e. before | s menas that patient has either not been the development of detectable levels of | |





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

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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | MD (Pat | n ay Chopra hology & Microbiology) n & Consultant Pathologist | | (Pathology) |
|---|--|---|---|--|
| NAME | : Mr. MANPREET SIN | GH | | |
| AGE/ GENDER | : 26 YRS/MALE | | PATIENT ID | : 1555006 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012407200036 |
| EFERRED BY | : | | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| ARCODE NO. | :01513488 | | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| LIENT CODE. | : KOS DIAGNOSTIC LA | | REPORTING DATE | : 20/Jul/2024 11:19AM |
| LIENT ADDRESS | | ROAD, AMBALA CANTT | | |
| | 10010/1,11011022011 | | | |
| est Name | | Value | Unit | Biological Reference interval |
| | | VIT | AMINS | |
| | | VITAMIN D/25 HY | DROXY VITAMIN D3 | |
| | ROXY VITAMIN D3): SEF VESCENCE IMMUNOASSAY | | ng/mL | DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |
| ITERPRETATION: | | | | |
| | CIENT: | < 20 | | g/mL |
| | FICIENT: | <u>21 - 29</u> 30 - 100 | | g/mL |
| | CATION: | > 100 | | g/mLg/mL |
| issue and tightly bou . Vitamin D plays a p shosphate reabsorpt Severe deficiency n DECREASED: . Lack of sunshine ex . Inadeguate intake, . Depressed Hepatic Secondary to advar . Osteoporosis and S Enzyme Inducing dr NCREASED: . Hypervitaminosis E evere hypercalcemia AUTION : Replaceme hypervitaminosis D | und by a transport prote rimary role in the maint ion, skeletal calcium dep nay lead to failure to mir posure. malabsorption (celiac d Vitamin D 25- hydroxyla need Liver disease econdary Hyperparathro rugs: anti-epileptic drugs D is Rare, and is seen onlia and hyperphophatemia nt therapy in deficient ir | in while in circulation. enance of calcium homeo osition, calcium mobiliza heralize newly formed ostr isease) se activity hidism (Mild to Moderate like phenytoin, phenobar y after prolonged exposur dividuals must be monito | ostatis. It promotes calciun tion, mainly regulated by p eoid in bone, resulting in r deficiency) rbital and carbamazepine, re to extremely high doses ored by periodic assessmen | port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in it of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i> |
| nterefere with Vitami | ιι υ αυνοιρτιοπ. | | | |





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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com



Page 19 of 23





| | Dr. Vinay Ch MD (Pathology & Chairman & Con | | | (Pathology) |
|--|---|--|--|-------------------------------|
| AME | : Mr. MANPREET SINGH | | | |
| GE/ GENDER | : 26 YRS/MALE | | PATIENT ID | : 1555006 |
| OLLECTED BY | : | | REG. NO./LAB NO. | : 012407200036 |
| EFERRED BY | | | REGISTRATION DATE | : 20/Jul/2024 10:05 AM |
| | | | | |
| ARCODE NO. | : 01513488 | | COLLECTION DATE | : 20/Jul/2024 10:09AM |
| LIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 20/Jul/2024 11:34AM |
| LIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| est Name | | Value | Unit | Biological Reference interval |
| <u>ITERPRETATION:-</u> INCREAS | SED VITAMIN B12 | | DECREASED VITAMIN | |
| | 1.0 | 1.5 | | N B12 |
| 1.Ingestion of Vitan | | 1.Pregna | incy | |
| 1.Ingestion of Vitan 2.Ingestion of Estro | gen | 2.DRUGS | incy S:Aspirin, Anti-convulsants | |
| 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan | gen hin A | 2.DRUG 3.Ethance | incy | |
| 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ | gen hin A jury | 2.DRUGS 3.Ethano 4. Contra 5.Haemo | ncy S:Aspirin, Anti-convulsants Il Igestion aceptive Harmones odialysis | |
| 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia | gen hin A jury | 2.DRUGS 3.Ethano 4. Contra 5.Haemo 6. Multip | ncy S:Aspirin, Anti-convulsants ol Igestion aceptive Harmones odialysis ole Myeloma | |





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







| | Dr. Vinay Ch MD (Pathology & Chairman & Con | Microbiology) | Dr. Yugan MD CEO & Consultant | (Pathology) |
|---------------------|--|-------------------|-------------------------------------|-------------------------------|
| NAME AGE/ GENDER | : Mr. MANPREET SINGH : 26 YRS/MALE | PATIEN | TID | : 1555006 |
| | . 20 TRS/ WALL | | | |
| COLLECTED BY | : | | D./LAB NO. | : 012407200036 |
| REFERRED BY | : | | RATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLEC | TION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPOR | TING DATE | : 20/Jul/2024 10:46AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, . | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | CLINICAL PATHO | DLOGY | |
| | | OUTINE & MICROSCO | PIC EXAMINAT | TION |
| PHYSICAL EXAMINA | TION | | | |
| QUANTITY RECIEVE | D | 10 | ml | |
| | by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| COLOUR | CTANCE SPECTROPHOTOMETRY | AMBER YELLOW | | PALE YELLOW |
| TRANSPARANCY | TANCE SPECIROPHOTOMETRY | CLEAR | | CLEAR |
| | TANCE SPECTROPHOTOMETRY | | | OLE IN |
| SPECIFIC GRAVITY | | 1.02 | | 1.002 - 1.030 |
| | CTANCE SPECTROPHOTOMETRY | | | |
| CHEMICAL EXAMINA | ATION | | | |
| REACTION | CTANCE SPECTROPHOTOMETRY | ACIDIC | | |
| PROTEIN | TANCE SPECTROFILOTOMETRY | Negative | | NEGATIVE (-ve) |
| | TANCE SPECTROPHOTOMETRY | Negative | | |
| SUGAR | | Negative | | NEGATIVE (-ve) |
| - | CTANCE SPECTROPHOTOMETRY | | | |
| pH | CTANCE SPECTROPHOTOMETRY | 6 | | 5.0 - 7.5 |
| BILIRUBIN | | Negative | | NEGATIVE (-ve) |
| | CTANCE SPECTROPHOTOMETRY | riogativo | | |
| NITRITE | | Negative | | NEGATIVE (-ve) |
| | CTANCE SPECTROPHOTOMETRY. | Normal | | 0.2 1.0 |
| UROBILINOGEN | CTANCE SPECTROPHOTOMETRY | Normal | EU/dL | 0.2 - 1.0 |
| KETONE BODIES | | Negative | | NEGATIVE (-ve) |
| | TANCE SPECTROPHOTOMETRY | | | |
| BLOOD | | Negative | | NEGATIVE (-ve) |
| | CTANCE SPECTROPHOTOMETRY | | | |
| ASCORBIC ACID | CTANCE SPECTROPHOTOMETRY | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| | | | | |

MICROSCOPIC EXAMINATION



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

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

KOS Central Lab:6349/1, Nicholson Road, Ambala Cantt -133 001, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

| NAME | : Mr. MANPREET SINGH | | | |
|--------------------|---------------------------------------|----------------|-------------|-------------------------------|
| AGE/ GENDER | : 26 YRS/MALE | PATIEN | T ID | : 1555006 |
| COLLECTED BY | : | REG. NO |)./LAB NO. | : 012407200036 |
| REFERRED BY | : | REGIST | RATION DATE | : 20/Jul/2024 10:05 AM |
| BARCODE NO. | :01513488 | COLLEC | TION DATE | : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPOR | FING DATE | : 20/Jul/2024 10:46AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AI | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| RED BLOOD CELLS (F | RBCs) CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | /HPF | 0 - 3 |
| PUS CELLS | | 1-3 | /HPF | 0 - 5 |

| PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 1-3 | /HPF | 0 - 5 | |
|--|----------------|------|----------------|--|
| EPITHELIAL CELLS | 1-2 | /HPF | ABSENT | |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CASTS | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | | | | |
| TRICHOMONAS VAGINALIS (PROTOZOA) | ABSENT | | ABSENT | |

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT



(an-

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







| | Dr. Vinay Ch MD (Pathology & Chairman & Cor | & Microbiology) | Yugam Chopra MD (Pathology) onsultant Pathologist |
|----------------|---|-----------------|---|
| NAME | : Mr. MANPREET SINGH | | |
| AGE/ GENDER | : 26 YRS/MALE | PATIENT ID | : 1555006 |
| COLLECTED BY | : | REG. NO./LAB N | 0. : 012407200036 |
| REFERRED BY | : | REGISTRATION | DATE : 20/Jul/2024 10:05 AM |
| BARCODE NO. | : 01513488 | COLLECTION DA | TE : 20/Jul/2024 10:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DAT | FE : 24/Jul/2024 08:51AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | |
| Test Name | | Value U | Init Biological Reference interval |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

CHLAMYDIA TRACHOMATIS DNA DETECTION

CHLAMYDIA TRACHOMATIS DNA DETECTION by PCR (POLYMERASE CHAIN REACTION)

Target Not Detected

INTERPRETATION: CLINICAL SIGNIFICANCE:

1. Chlamydia trachomatis is a common sexually transmitted infection (STI) caused by bacteria, which can manifest in various ways, including:

 Charnydia trachomatis is a common sexually transmitted infection (STI) caused by bacteria, which can halfnest in various ways, including: trachoma, lymphogranuloma venereum, nongonococcal urethritis, cervicitis, salpingitis, pelvic inflammatory disease.
 Chlamydia trachomatis affects both men and women and occurs in all age groups, though it's most prevalent among young women. Chlamydia isn't difficult to treat once you know you have it. If left untreated, however, it can lead to more-serious health problems.
 Early-stage Chlamydia trachomatis infections often cause few or no signs and symptoms. When signs or symptoms occur, they usually start one to two weeks after exposure to chlamydia. Even when signs and symptoms occur, they're often mild and passing, making them easy to overlook. d. It's also possible to acquire chlamydial eye infections (conjunctivitis) through contact with infected secretions. LIMITATIONS:

1. The results of this test are highly dependent on the sampling technique employed, sample type, cold-chain maintenance and clinical condition. 2. Please note that false-negative report may be generated in cases where there is possibility of presence of PCR inhibitors (cannot be traced by technologist) or viral load lesser than the assay lower limit of detection as well as presence of rare genetic mutation.

3. Please note that false-positive report may be generated in cases where there is possibility of background DNA contamination from pre analytical or in lab environment.

4. The assay performance characteristics for this test are determined by STMPL which is used for clinical diagnosis.
5. There is poor standardization between commercially available PCR tests, and results from different institutions should not be directly compared. Results are best monitored using a single institution.

*** End Of Report ***





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

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

