



| | Dr. Vinay Cho MD (Pathology & Chairman & Cons | 1icrobiology) MD (Pathology) | | | | |
|--|--|--|---|--|--|---|
| NAME | : Mr. SURESH AGGARWAL | | | | | |
| AGE/ GENDER | : 72 YRS/MALE | | PATIENT ID | | : 1686512 | |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | | : 012411300016 | |
| REFERRED BY | : | | REGISTRATION DATE | | : 30/Nov/2024 09:36 AM | |
| BARCODE NO. | :01521722 | | COLLECTION DATE | | : 30/Nov/2024 11:04AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING | | : 30/Nov/2024 12:0 | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | AMBALA CANTT | | | | |
| Test Name | | Value | | Unit | Biologica | l Reference interval |
| GLYCOSY GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION: | | 8.5 ^H 197.25 ^H | | % mg/dL | 4.0 - 6.4 60.00 - 14 | 40.00 |
| AS PER AMERICAN DIABETES ASSOCIATION (ADA): | | | | | | |
| R | REFERENCE GROUP | | GLYCOSYLATED HEMOGLOGIB (HBAIC) in % | | | |
| | betic Adults >= 18 years | | <5.7 | | | |
| | : Risk (Prediabetes) agnosing Diabetes | _ | 5.7 - 6.4 | | | |
| Di | - | Λ <i>α</i> | >= 6.5 e > 19 Years | | | |
| Therapeutic goals for glycemic control | | Action | Goals of Therapy: Actions Suggested: Age < 19 Years | | < 7.0 >8.0 | |
| COMMENTS: | | Goal | of therapy: | | <7.5 | |
| 1.Glycosylated hemogl 2.Since Hb1c reflects lo concentration of HbAld 3.Target goals of < 7.0 | lobin (HbA1c) test is three monthly ng term fluctuations in blood glucos c. Converse is true for a diabetic pre % may be beneficial in patients with to complications of diabetes, limited | se concentration, a viously under good n short duration of | a diabetic patie d control but no f diabetes, long | nt who has rec by poorly cont life expectanc | ently under good contro rolled. y and no significant car | ol may still have high diovascular disease. In |

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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.



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| BARCODE NO. | : 01521722 | COLL | ECTION DATE : | : 30/Nov/2024 11:04AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE : | 04/Dec/2024 03:13PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| | CLINIC | CAL CHEMISTRY | /BIOCHEMISTRY | | |
| | GLUCOSE | FASTING (F) AND | POST PRANDIAL (I | PP) | |
| GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) | | 119.68 ^H | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 | |
| GLUCOSE POST PRANDIAL (PP): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) | | 156.72 ^H | mg/dL | NORMAL: < 140.00 | |

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INTERPRETATION:

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A fasting plasma glucose below 100 mg/dL and post-prandial plasma glucose level below 140 mg/dl is considered normal.

2. A fasting plasma glucose level between 100 - 125 mg/dl and post-prandial plasma glucose level between 140 – 200 mg/dL is considered as glucose intolerant or pre diabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.

3. A fasting plasma glucose level of above 125 mg/dL and post-prandial plasma glucose level above 200 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.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | | LI ORING DAIL | . 50/1101/2024 12:051 11 | | |
| CLIENT ADDRESS | . 05457 I, MCHOLSON ROAD | , AMDALA CANTT | | | | |
| Test Name | | Value | Unit | Biological Reference interval | | |
| VITAMIN B12/COBALAMIN: SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) INTERPRETATION:- | | | | | | |
| | ED VITAMIN B12 | | DECREASED VITAMIN | N B12 | | |
| 1.Ingestion of Vitan | | | 1.Pregnancy | | | |
| 2.Ingestion of Estro | | | 2.DRUGS:Aspirin, Anti-convulsants, Colchicine | | | |
| 3.Ingestion of Vitan | | | 3.Ethanol Igestion 4. Contraceptive Harmones | | | |
| | 4.Hepatocellular injury 5.Myeloproliferative disorder | | 5.Haemodialysis | | | |
| 6.Uremia | | | | | | |
| Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function. In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg, ileal resection, small intestinal diseases). Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia. Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. NOTE:A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal. | | | | | | |





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Page 3 of 5





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| Test Name | | Value | Unit | Biological Reference interval |
| | | TUMOU | JR MARKER | |
| | | PROSTATE SPECIFIC | CANTIGEN (PSA) - TO | TAL |
| Palse negative / poil PSA levels may app Immediate PSA testineedle biopsy of prosision for the prosision of the prosision of the prosision of the provided with clinic. Sites of Non-prosta Physiological decression of the provided matching of the provided ma | ded test for detecti sitive results are of ear consistently ele- ting following digits tate is not recomm- ess of levels should al findings and resu- tic PSA production ase in PSA level by of PSA in a given spe- ibration, and reage NG INTERVALS eeline) atively from hospital | SAY) ion of prostate cancer along w bserved in patients receiving evated / depressed due to the al rectal examination, ejacula ended as they falsely elevate not be interpreted as absolut ults of other investigations are breast epithelium, saliva 18% has been observed in ho ecimen, determined with assa ent specificity. | mouse monoclonal antibodi interference by heterophilic tion, prostatic massage, ind levels te evidence of the presence ry glands, peri-urethral & ar ispitalized / sedentary patien | 0.0 - 4.0 on (DRE) in males above 50 years of age. es for diagnosis or therapy c antibodies & nonspecific protein binding welling catheterization, ultrasonography and or absence of disease. All values should be nal glands, cells of male urethra & breast milk nts either due to supine position or suspended urers, may not be comparable due to differences |
| 4. Monthly Follow Up | <u>if levels are high a</u> POST SURGERY | nd showing a rising trend | FREQUENCY OF TESTING | |
| | 1st Year | | Every 3 Months | · |
| <u> </u> | 2 nd Year | | Every 4 Months | |
| 3' | rd Year Onwards | | Every 6 Months | |
| CLINICAL USE: | detection of Prosta or more affected fi | irst degree relatives. | nction with Digital rectal exa | amination in males more than 50 years of age |

3. Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

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INCREASED LEVEL:

1. Prostate cancer

2. Benign Prostatic Hyperplasia

3. Prostatitis

4. Genitourinary infections



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*** End Of Report ***



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