
# P K R JAIN HEALTHCARE INSTITUTE

NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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| | | | |
|---|---|---|---|
| **NAME** | **: Baby. DAISY** | | |
| **AGE/ GENDER** | : 8 YRS/FEMALE | **PATIENT ID** | : 1652911 |
| **COLLECTED BY** | : | **REG. NO./LAB NO.** | **: 122410250006** |
| **REFERRED BY** | : | **REGISTRATION DATE** | : 25/Oct/2024 09:49 AM |
| **BARCODE NO.** | : 12505339 | **COLLECTION DATE** | : 25/Oct/2024 03:47PM |
| **CLIENT CODE.** | : P.K.R JAIN HEALTHCARE INSTITUTE | **REPORTING DATE** | : 25/Oct/2024 12:57PM |
| **CLIENT ADDRESS** | : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA | | |

## HAEMATOLOGY

### COMPLETE BLOOD COUNT (CBC)

| Test Name | Value | Unit | Biological Reference interval |
|---|---|---|---|
| **RED BLOOD CELLS (RBCS) COUNT AND INDICES** | | | |
| HAEMOGLOBIN (HB)<br>*by CALORIMETRIC* | 12 | gm/dL | 12.0 - 16.0 |
| RED BLOOD CELL (RBC) COUNT<br>*by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | 4.31 | Millions/cmm | 3.50 - 5.50 |
| PACKED CELL VOLUME (PCV)<br>*by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER* | **34.1**$^{L}$ | % | 35.0 - 49.0 |
| MEAN CORPUSCULAR VOLUME (MCV)<br>*by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER* | **79.2**$^{L}$ | fL | 80.0 - 100.0 |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH)<br>*by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER* | 27.9 | pg | 27.0 - 34.0 |
| MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)<br>*by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER* | 35.3 | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIBUTION WIDTH (RDW-CV)<br>*by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER* | 12.1 | % | 11.00 - 16.00 |
| RED CELL DISTRIBUTION WIDTH (RDW-SD)<br>*by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER* | 37.1 | fL | 35.0 - 56.0 |
| MENTZERS INDEX<br>*by CALCULATED* | 18.38 | RATIO | BETA THALASSEMIA TRAIT: < 13.0<br>IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INDEX<br>*by CALCULATED* | 22.28 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0<br>IRON DEFICIENCY ANEMIA: > 65.0 |
| **WHITE BLOOD CELLS (WBCS)** | | | |
| TOTAL LEUCOCYTE COUNT (TLC)<br>*by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | 5060 | /cmm | 4000 - 12000 |
| **DIFFERENTIAL LEUCOCYTE COUNT (DLC)** | | | |
| NEUTROPHILS<br>*by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | **49**$^{L}$ | % | 50 - 70 |
| LYMPHOCYTES | 41 | % | 20 - 45 |

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| Test Name | Value | Unit | Biological Reference interval |
|---|---|---|---|
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| EOSINOPHILS | 4 | % | 1 - 6 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| MONOCYTES | 6 | % | 3 - 12 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| BASOPHILS | 0 | % | 0 - 1 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| **ABSOLUTE LEUKOCYTES (WBC) COUNT** | | | |
| ABSOLUTE NEUTROPHIL COUNT | 2479 | /cmm | 2000 - 7500 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| ABSOLUTE LYMPHOCYTE COUNT | 2075 | /cmm | 800 - 4900 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| ABSOLUTE EOSINOPHIL COUNT | 202 | /cmm | 40 - 440 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| ABSOLUTE MONOCYTE COUNT | 304 | /cmm | 80 - 880 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| ABSOLUTE BASOPHIL COUNT | 0 | /cmm | 0 - 110 |
| *by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY* | | | |
| **PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.** | | | |
| PLATELET COUNT (PLT) | 225000 | /cmm | 150000 - 450000 |
| *by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | | | |
| PLATELETCRIT (PCT) | 0.22 | % | 0.10 - 0.36 |
| *by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | | | |
| MEAN PLATELET VOLUME (MPV) | 10 | fL | 6.50 - 12.0 |
| *by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | | | |
| PLATELET LARGE CELL COUNT (P-LCC) | 58000 | /cmm | 30000 - 90000 |
| *by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | | | |
| PLATELET LARGE CELL RATIO (P-LCR) | 25.6 | % | 11.0 - 45.0 |
| *by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | | | |
| PLATELET DISTRIBUTION WIDTH (PDW) | 16.1 | % | 15.0 - 17.0 |
| *by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE* | | | |

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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## IMMUNOPATHOLOGY/SEROLOGY

### ANTI TISSUE TRANSGLUTAMINASE (tTG) ANTIBODY IgA

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|---|---|---|---|
| ANTI TISSUE TRANSGLUTAMINASE ANTIBODY IgA<br>*by ELISA (ENZYME LINKED IMMUNOASSAY)* | **172.62$^{H}$** | IU/mL | NEGATIVE: < 20.0<br>POSITIVE: > 20.0 |

***INTERPRETATION:***

1.Anti-transglutaminase antibodies (ATA) are autoantibodies against the transglutaminase protein.
2.Antibodies to tissue transglutaminas are found in patients with several conditions, including coeliac disease, juvenile diabetes, inflammatory bowel disease, and various forms ofarthritis.
3.In coeliac disease, ATA are involved in the destruction of the villous extracellular matrix and target the destruction of intestinal villous epithelial cells by killer cells.
4.Deposits of anti-tTG in the intestinal epithelium predict coeliac disease.
5.Celiac disease (gluten-sensitive enteropathy, celiac sprue) results from an immune-mediated inflammatory process following ingestion of wheat, rye, or barley proteins that occurs in genetically susceptible individuals. The inflammation in celiac disease occurs primarily in the mucosa of the small intestine, which leads to villous atrophy.

**CLINICAL MANIFESTATIONS RELATED TO GASTROINTESTINAL TRACT:**

1.Abdominal pain
2.Malabsorption
3.Diarrhea and Constipation.

**CLINICAL MANIFESTATION OF CELIAC DISEASE NOT RESTRICTED TO GIT:**

1.Failure to grow (delayed puberty and short stature)
2.Iron deficiency anemia
3.Recurrent fetal loss
4.Osteoporosis and chronic fatigue
5.Recurrent aphthous stomatitis (canker sores)
6.Dental enamel hypoplasia, and dermatitis herpetiformis.
7.Patients with celiac disease may also present with neuropsychiatric manifestations including ataxia and peripheral neuropathy, and are at increased risk for development of non-Hodgkin lymphoma.
8.The disease is also associated with other clinical disorders including thyroiditis, type I diabetes mellitus, Down syndrome, and IgA deficiency.

**NOTE:**

1.The finding of tissue transglutaminase (tTG)-IgA antibodies is specific for celiac disease and possibly for dermatitis herpetiformis. For individuals with moderately to strongly positive results, a diagnosis of celiac disease is likely and the patient should undergo biopsy to confirm the diagnosis.
2.If patients strictly adhere to a gluten-free diet, the unit value of IgA-anti-tTG should begin to decrease within 6 to 12 months of onset of dietary therapy.

**CAUTION:**

1.This test should not be solely relied upon to establish a diagnosis of celiac disease. It should be used to identify patients who have an increased probability of having celiac disease and in whom a small intestinal biopsy is recommended.

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2.Affected individuals who have been on a gluten-free diet prior to testing may have a negative result.
3.For individuals who test negative, IgA deficiency should be considered. If total IgA is normal and tissue transglutaminase (tTG)-IgA is negative there is a low probability of the patient having celiac disease and a biopsy may not be necessary.
4.If serology is negative or there is substantial clinical doubt remaining, then further investigation should be performed with endoscopy and bowel biopsy. This is especially important in patients with frank malabsorptive symptoms since many syndromes can mimic celiac disease. For the patient with frank malabsorptive symptoms, bowel biopsy should be performed regardless of serologic test results.
5.The antibody pattern in dermatitis herpetiformis may be more variable than in celiac disease; therefore, both endomysial and tTG antibody determinations are recommended to maximize the sensitivity of the serologic tests.

*** End Of Report ***

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