Fortis MEDCENTRE
CHANDIGARH
(A unit of Fortis Hospital Mohali)
SCO 11, Sector 11-D, Chandigarh - 160011

Name: Mr. Multani Jaspinder Singh
UHID: 13019035 Date: 08/03/24
Age: 31 Gender: M

Nursing Assessment

Profile			
Height (cm):	185cm.	Waist Circumference (cm):	36 inch.
Weight (Kg.):	102 Kg.	Body Mass Index:	29.8 Kg/m² (18-23)
Occupation:	Govt Job.	Marital Status	☐ Single ☑ Married

Vital Signs			
Pulse Rate (/min):	68/min, SpO2-98.	Respiratory Rate (/min):	20/min
Blood Pressure (mmHg):	108/60 mmHg	Temperature (if febrile):	Afebrile.

Past History			
☑	Hypertension:	☑	Diabetes:
☑	Heart disease:	☑	Dyslipidemia:
☑	Asthma:	☑	Tuberculosis:
☑	Allergies:		
☑	Others:		

For Women	
LMP:	Last Pap smear done in
Menopause ☐ Yes ☐ No	Last Mammography done in
Consent for X-ray & Mammography	

Current Medications
NIL

Signature, Name and Emp. ID of the Nurse: Reena

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Name Mr Multani Jaspinder Singh
UHID : 13019035 Date : 08/03/24
Age : 31 Gender : M

Internal Medicine Consultation

Relevant History:
Reduced 108 → 102 kg.

Diagnosis: Obese
Fatty liver.

-185 cm
-102 kg | Examination Findings:
29.8 kg/m2

Advice / Treatment Plan:
- Dietary Advice for wt. Reduction.
- Regular Exercise.
- Review with Invs. reports.

8/3/24

Dr MANJEET SINGH TREHAN
MBBS,MD
Additional Director-Internal Medicine (FMC)
Fortis Hospital, Mohali (Pb.)
Mobile No.9814104509
Reg. No.PMC 24797

ECG.
PFT.
Echo | wnl
USG-GT. Fatty liver.

Investigations:

Signature and stamp of the Consultant

Mulltani jaspinder singh
ID: 13019035

08.03.2024 10:22:42
Fortis Med Centre
sector 11
Chandgarh

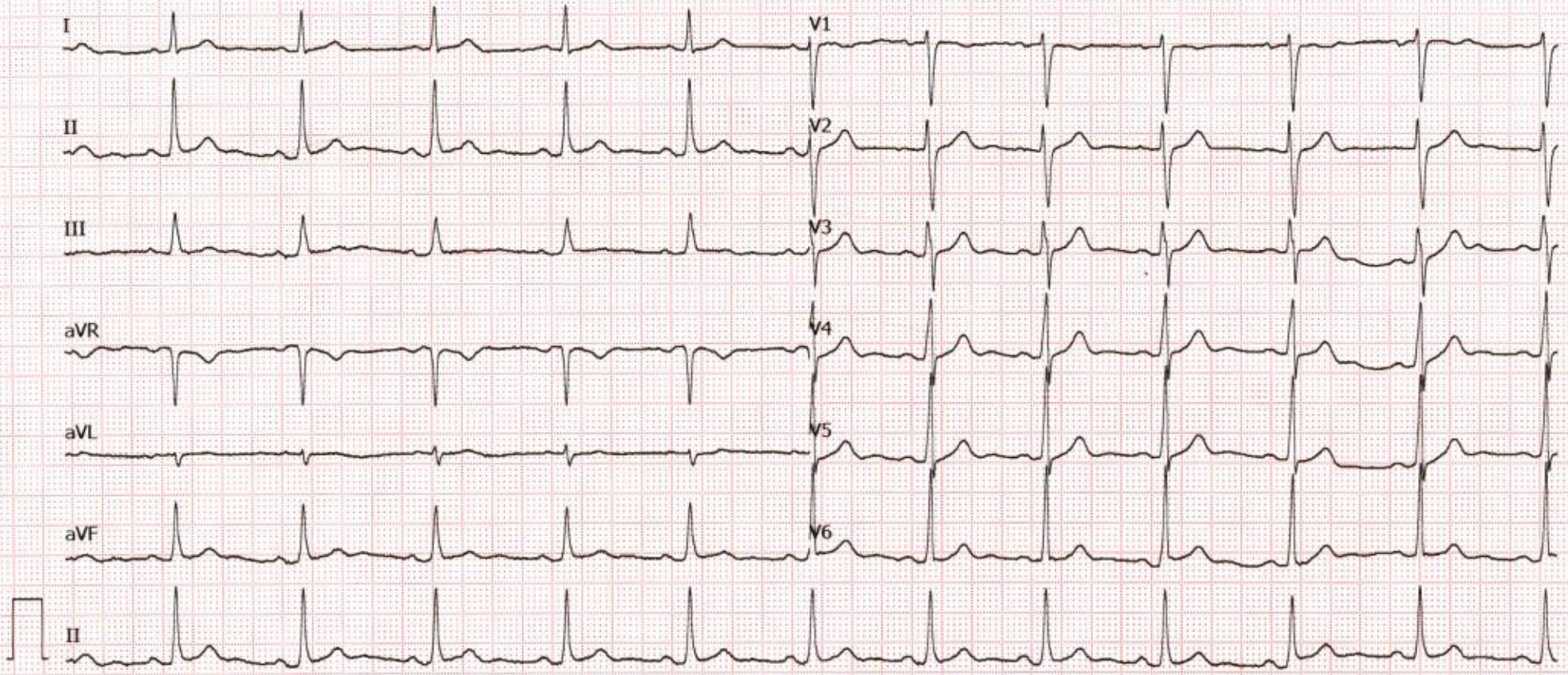
Location:
Order Number:
Visit:
Indication:
Medication 1:
Medication 2:
Medication 3:

Room:

72 bpm
-- / -- mmHg

Technician:
Ordering Ph:
Referring Ph:
Attending Ph:

QRS :	90 ms	Normal sinus rhythm
QT / QTcBaz :	374 / 409 ms	Normal ECG
PR :	156 ms	
P :	114 ms	
RR / PP :	834 / 833 ms	
P / QRS / T :	56 / 60 / 51 degrees	



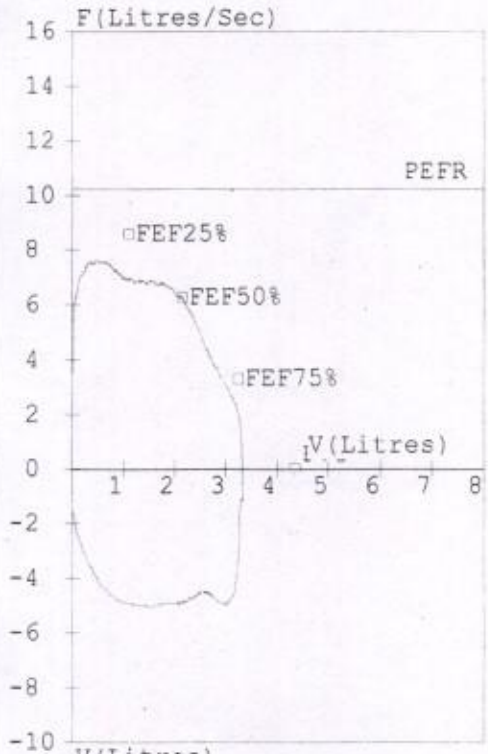
Unconfirmed

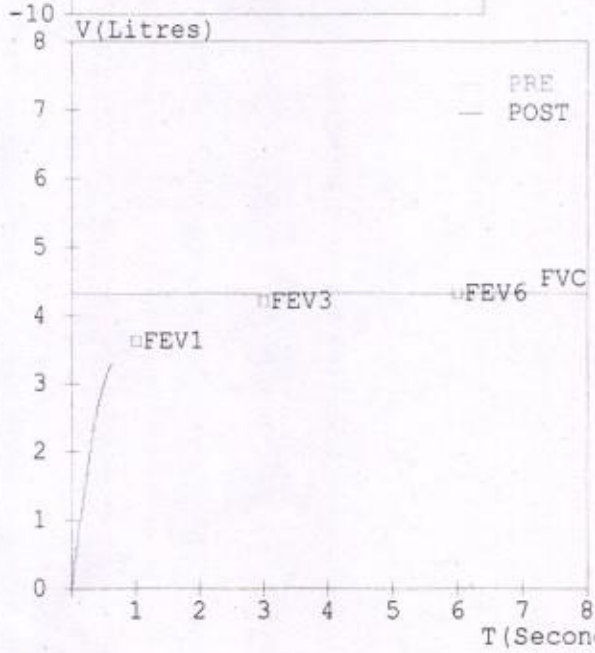
GE MAC2000 1.1 12SL™ v241 25 mm/s 10 mm/mV ADS 0.56-40 Hz 50 Hz 2x5x6_25_R1 1/1

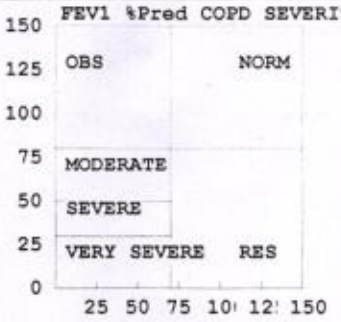
RECORDERS & MEDICARE SYSTEMS

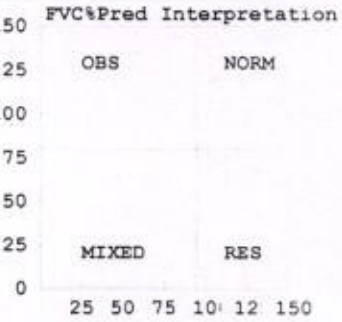
181/5,Phase-I,Industrial Area,Chandigarh-160002

Patient: MULTANI JASPINDER SINGH	Age : 31 Years	Gender : Male	
Refd. By:	Height : 185 Cms	Smoker : No	
Pred.Eqns: RECORDERS	Weight : 102 Kgs	Eth. Corr: 100	
Date : 08-Mar-2024 12:18 PM	ID: 13019035	Temp :	









Spirometry(FVC Results)

Parameter		Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC	(L)	04.33	03.32	077	-----	---	
FEV1	(L)	03.62	03.32	092	-----	---	
FEV1/FVC	(%)	83.60	100.00	120	-----	---	
FEF25-75	(L/s)	04.63	06.41	138	-----	---	
PEFR	(L/s)	10.23	07.55	074	-----	---	
FIVC	(L)	-----	03.46	---	-----	---	
FEV.5	(L)	-----	02.99	---	-----	---	
FEV3	(L)	04.20	03.32	079	-----	---	
PIFR	(L/s)	-----	05.07	---	-----	---	
FEF75-85	(L/s)	-----	04.10	---	-----	---	
FEF.2-1.2	(L/s)	08.27	07.14	086	-----	---	
FEF 25%	(L/s)	08.58	07.13	083	-----	---	
FEF 50%	(L/s)	06.28	06.60	105	-----	---	
FEF 75%	(L/s)	03.30	04.99	151	-----	---	
FEV.5/FVC	(%)	-----	90.06	---	-----	---	
FEV3/FVC	(%)	97.00	100.00	103	-----	---	
FET	(Sec)	-----	00.65	---	-----	---	
ExplTime	(Sec)	-----	00.05	---	-----	---	
Lung Age	(Yrs)	031	033	106	-----	---	
FEV6	(L)	04.33	-----	---	-----	---	
FIF25%	(L/s)	-----	04.74	---	-----	---	
FIF50%	(L/s)	-----	05.04	---	-----	---	
FIF75%	(L/s)	-----	04.34	---	-----	---	

Pre Test COPD Severity

Test within normal limits

Pre Medication Report Indicates

Mild Restriction as (FEV1/FVC)%Pred >95 and FVC%Pred <80

Fortis MEDCENTRE
CHANDIGARH

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E-mail : contactus.fmc@fortishealthcare.com
Website : www.fortishealthcare.com

DEPARTMENT OF CARDIOLOGY
ECHOCARDIOGRAPHY LABORATORY
Phone 0172-5061222; Ext. 6422

Dated:8 March 2024

Name:	**MR. MULTANI JASPINDER SINGH**	**Age: 31**	**Sex : M**
FHL No:	**13019035**	**Lab No:**	
Clinical Diagnosis:	**R/O CAD**		
Ref By:	**FMC**		

MEASUREMENTS

Aortic Root Diameter	:	3.09	cm	Left Atrial dimension		3.0	cm
Aortic Valve Opening	:	----	cm	Right Ventricular dimension		1.0	cm
Left Ventricular ED dimension	:	4.1	cm	Left Ventricular ES dimension		2.7	cm
Interventricular Septal thickness	ED:	0.8	cm		ES:	0.9	cm
Left Ventricular PW thickness	ED:	1.0	cm		ES:	1.0	cm

INDICES OF LEFT VENTRICULAR FUNCTION:

LV Ejection Fraction : 64 %

IMAGING:

M mode examination revealed normal movement of both Mitral leaflets during diastole. No SAM or Mitral valve prolapse is seen. Aortic root is normal in size. Dimensions of left atrium and left ventricle are normal

2-D imaging in PLAX. SAX and apical views revealed normal sized left ventricle. Movement of anterior wall, septum, apex, inferior wall, posterior and lateral walls is normal. Mitral valve opening is normal. No evidence of Mitral valve prolapse is seen. Aortic valve has three cusps and its opening is not restricted. Pulmonary valve is normal. Interatrial and interventricular septa are intact. No intracardiac mass or thrombus is seen. No pericardial pathology is observed.

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DOPPLER: PULSE WAVE; CONTINUOUS WAVE & COLOR FLOW MAPPING

Mitral Valve	:	E= 82 A= 65 cm/sec; E > A; No MR
		E wave Deceleration Time = 183 msec
Aortic Valve	:	111 cm/sec No AR
Tricuspid Valve	:	No TR ; RVSP = + RAP mmHg
Pulmonary Valve	:	81 cm/sec

FINAL DIAGNOSIS

- **NO REGIONAL WALL MOTION ABNORMALITY OF LEFT VENTRICLE**
- **NORMAL LEFT VENTRICULAR SYSTOLIC FUNCTION (LVEF 64%)**

Dr. MUKTI SHARMA
MD, DNB, FIAP, FCSI
Sr. Consultant
Fortis MEDCENTRE

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CHANDIGARH

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DEPARTMENT OF FMC-RADIOLOGY LAB

Date: 08/Mar/2024

Name: Mr. Multani Jaspinder Singh
Age | Sex: 31 YEAR(S) | Male
Order Station : FRONTOFFICE-FMC
Bed Name :

UHID | Episode No : 13019035 | 3098/24/10021
Order No | Order Date: 10021/PN/OP/2403/7917 | 08-Mar-2024
Admitted On | Reporting Date : 08-Mar-2024 10:01:10
Order Doctor Name : Dr.SELF .

CHEST X-RAY (PA VIEW)

Both the domes of diaphragm are normal.

Both costophrenic angles are normal.

Both lung fields are clear.

Cardiac size and silhouette are normal.

Both hila and mediastinum are normal.

Bony cage and soft tissues are normal.

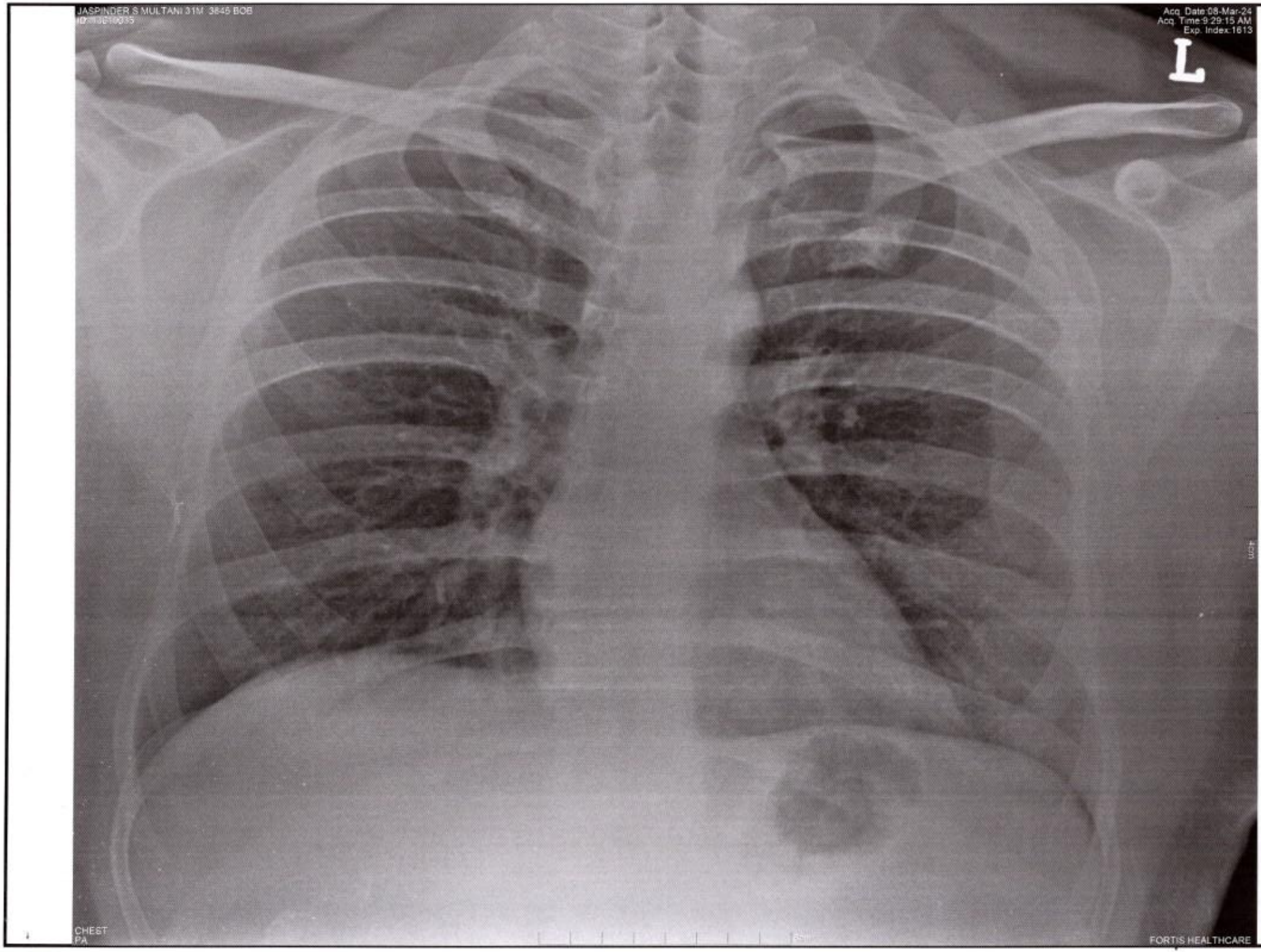
IMPRESSION: NORMAL STUDY.

Please correlate clinically and with other relevant investigations.

Dr. ADITI PANWAR

PMC - 41230

Consultant Radiologist


JASPINDER S MULTANI 31M 3845 BOB
Acq. Date:08-Mar-24
Acq. Time:9:29:15 AM
Exp. Index:1613
L
CHEST
PA
FORTIS HEALTHCARE

Fortis MEDCENTRE
CHANDIGARH

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NAME: MR. MULTANI JASPINDER SINGH
AGE AND SEX: 31Y/M
UHID NO: 13019035
DATE:08/03/2024
ROI: WHOLE ABDOMEN

Liver is normal in size, outline and shows increased echogenicity. No focal lesion seen. IHBR's are not dilated. Portal vein and hepatic veins are normal.

Gall bladder is normally distended with anechoic lumen. Wall thickness is normal. No calculus / focal lesion seen. No pericholecystic fluid / collection seen. CBD is normal.

Pancreas is visualized in region of head and proximal body and is normal in size, shape, outline and echotexture. No focal lesion seen. Distal body and tail are obscured by bowel gases.

Spleen is normal in size, outline and echotexture. No focal lesion seen.

Right kidney is normal in size, outline and echogenicity. Cortico-medullary differentiation is maintained. No hydronephrosis / calculus is seen.

Left kidney is normal in size, outline and echogenicity. Cortico-medullary differentiation is maintained. No hydronephrosis / calculus is seen.

Retroperitoneum is normal.

The urinary bladder is fully distended and is normal in outline and wall thickness. No calculi or growth seen.

Prostate is normal in size and shows normal outline and echo pattern. No focal lesion seen.

No free fluid is seen.

Opinion: Fatty Liver Grade – I.

Suggested clinical correlation.

Dr. ADITI PANWAR
PMC - 41230
Consultant Radiologist

JASPINDER SINGH, MULTANI **Study Date: 08/03/2024**

Patient ID: 13019035 Accession #: Alt ID:

DOB: Age: Gender: M Ht: Wt: BSA:

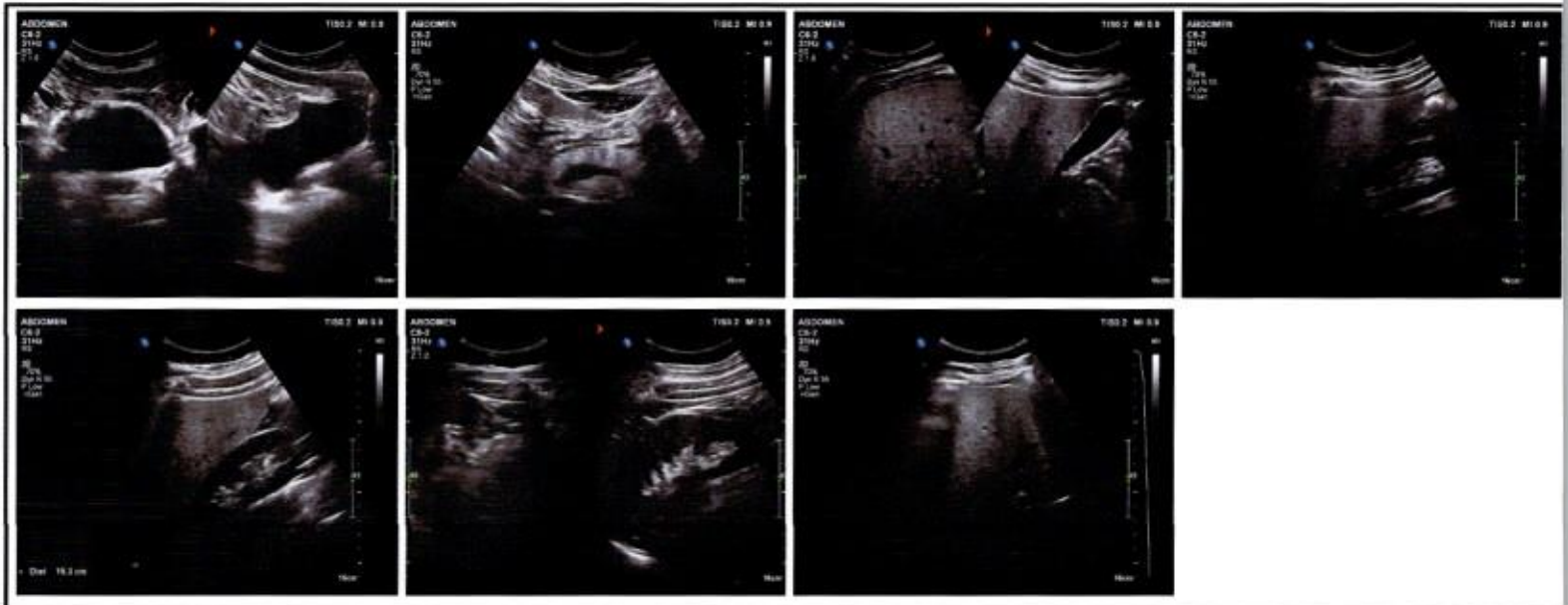
Institution: Fortis MEDCENTRE, Chandigarh

Referring Physician:

Physician of Record: Performed By:

Comments:

Images



Signature

Signature:

Name(Print): Date:

DIAGNOSTIC REPORT

MC-2559

Fortis HOSPITAL Mohali

PATIENT NAME : MULTANI JASPINDER SINGH **REF. DOCTOR :** SELF

CODE/NAME & ADDRESS : C000045483 - FORTIS FORTIS MOHALI-CHC -SPLZD FORTIS HOSPITAL – MOHALI, MOHALI 160062 7087030817	ACCESSION NO : **0006XC008236** PATIENT ID : FH.13019035 CLIENT PATIENT ID: UID:13019035 ABHA NO :	AGE/SEX : 31 Years Male DRAWN : 08/03/2024 09:07:00 RECEIVED : 08/03/2024 15:35:34 REPORTED : 08/03/2024 21:32:26

CLINICAL INFORMATION :

UID:13019035 REQNO-1673134
CORP-OPD
BILLNO-1002124OPCR003845
BILLNO-1002124OPCR003845

Test Report Status **Final**	Results	Biological Reference Interval	Units

HAEMATOLOGY - CBC

CBC-5, EDTA WHOLE BLOOD

BLOOD COUNTS, EDTA WHOLE BLOOD

HEMOGLOBIN (HB) METHOD : SLS- HEMOGLOBIN DETECTION METHOD	**17.1 High**	13.0 - 17.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : HYDRODYNAMIC FOCUSING	**5.51 High**	4.5 - 5.5	mil/µL
WHITE BLOOD CELL (WBC) COUNT METHOD : FLOWCYTOMETRY	8.31	4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : HYDRO DYNAMIC FOCUSING METHOD / MICROSCOPY	381	150 - 410	thou/µL

RBC AND PLATELET INDICES

HEMATOCRIT (PCV) METHOD : HYDRODYNAMIC FOCUSING	**54.3 High**	40.0 - 50.0	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD : CALCULATED PARAMETER	98.5	83.0 - 101.0	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD : CALCULATED PARAMETER	31.0	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION(MCHC) METHOD : CALCULATED PARAMETER	31.5	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : CALCULATED PARAMETER	13.4	11.6 - 14.0	%
MENTZER INDEX METHOD : CALCULATED PARAMETER	17.9		
MEAN PLATELET VOLUME (MPV) METHOD : CALCULATED PARAMETER	9.6	6.8 - 10.9	fL

Dr. Subhijit kaur (MD, Pathology)
Senior Resident, 49300

Dr. Shafira Garg (MD, Pathology)
Attending Consultant,47150

Dr. Irneet Mundi (MD,DNB Pathology)
Associate Consultant, 34080

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Email : lab.mohali@fortishealthcare.com

ULR No.6000003311535-0006

DIAGNOSTIC REPORT

MC-2559

Fortis HOSPITAL Mohali

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CODE/NAME & ADDRESS : C000045483 - FORTIS FORTIS MOHALI-CHC -SPLZD FORTIS HOSPITAL – MOHALI, MOHALI 160062 7087030817	ACCESSION NO : **0006XC008236** PATIENT ID : FH.13019035 CLIENT PATIENT ID: UID:13019035 ABHA NO :	AGE/SEX : 31 Years Male DRAWN : 08/03/2024 09:07:00 RECEIVED : 08/03/2024 15:35:34 REPORTED : 08/03/2024 21:32:26

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WBC DIFFERENTIAL COUNT			
NEUTROPHILS	42	40.0 - 80.0	%
METHOD : FLOW CYTOMETRY+LEISHMAIN STAIN+MICROSCOPY			
LYMPHOCYTES	**45 High**	20.0 - 40.0	%
METHOD : FLOW CYTOMETRY+LEISHMAIN STAIN+MICROSCOPY			
MONOCYTES	06	2.0 - 10.0	%
METHOD : FLOW CYTOMETRY+LEISHMAIN STAIN+MICROSCOPY			
EOSINOPHILS	**07 High**	1 - 6	%
METHOD : FLOW CYTOMETRY+LEISHMAIN STAIN+MICROSCOPY			
BASOPHILS	00	0 - 2	%
METHOD : FLOW CYTOMETRY+LEISHMAIN STAIN+MICROSCOPY			
ABSOLUTE NEUTROPHIL COUNT	3.49	2.0 - 7.0	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE LYMPHOCYTE COUNT	**3.74 High**	1.0 - 3.0	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE MONOCYTE COUNT	0.50	0.2 - 1.0	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE EOSINOPHIL COUNT	**0.58 High**	0.02 - 0.50	thou/µL
METHOD : CALCULATED PARAMETER			
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	0.9		
METHOD : CALCULATED PARAMETER			

Interpretation(s)
RBC AND PLATELET INDICES-Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(>13) from Beta thalassaemia trait
(<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.
WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.
(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504
This ratio element is a calculated parameter and out of NABL scope.

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HAEMATOLOGY

ERYTHROCYTE SEDIMENTATION RATE (ESR),EDTA BLOOD

E.S.R	10	0 - 14	mm at 1 hr

METHOD : WESTERGREN METHOD

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C	5.1	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%

METHOD : HPLC

ESTIMATED AVERAGE GLUCOSE(EAG)	99.7	< 116.0	mg/dL

METHOD : CALCULATED PARAMETER

Interpretation(s)
ERYTHROCYTE SEDIMENTATION RATE (ESR),EDTA BLOOD-**TEST DESCRIPTION** :-
Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic; it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change.
TEST INTERPRETATION
Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.
Finding a very accelerated ESR**(>100 mm/hour)** in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis).
In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.
Decreased in: Polycythermia vera, Sickle cell anemia

LIMITATIONS
False elevated ESR : Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia
False Decreased : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine,

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salicylates)

REFERENCE :
1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition;2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin;3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis,10th edition.
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-**Used For**:

1. Evaluating the long-term control of blood glucose concentrations in diabetic patients.
2. Diagnosing diabetes.
3. Identifying patients at increased risk for diabetes (prediabetes).
The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.
1. eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :
1. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss,hemolytic anemia) will falsely lower HbA1c test results.Fructosamine is recommended in these patients which indicates diabetes control over 15 days.
2.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.
3. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia,uremia, hyperbilirubinemia, chronic alcoholism,chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods,falsely increasing results.
4. Interference of hemoglobinopathies in HbA1c estimation is seen in

a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
b) Heterozygous state detected (D10 is corrected for HbS & HbC trait.)
c) HbF > 25% on alternate paltform (Boronate affinity chromatography) is recommended for testing of HbA1c.Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy

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ULR No.6000003311535-0006

DIAGNOSTIC REPORT

MC-2559

Fortis HOSPITAL Mohali

PATIENT NAME : MULTANI JASPINDER SINGH **REF. DOCTOR :** SELF

CODE/NAME & ADDRESS : C000045483 - FORTIS FORTIS MOHALI-CHC -SPLZD FORTIS HOSPITAL – MOHALI, MOHALI 160062 7087030817	ACCESSION NO : **0006XC008236** PATIENT ID : FH.13019035 CLIENT PATIENT ID: UID:13019035 ABHA NO :	AGE/SEX : 31 Years Male DRAWN : 08/03/2024 09:07:00 RECEIVED : 08/03/2024 15:35:34 REPORTED : 08/03/2024 21:32:26

CLINICAL INFORMATION :

UID:13019035 REQNO-1673134
CORP-OPD
BILLNO-1002124OPCR003845
BILLNO-1002124OPCR003845

Test Report Status **Final**	Results	Biological Reference Interval	Units
BIOCHEMISTRY			
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL	0.56	UPTO 1.2	mg/dL
METHOD : DIAZONIUM ION, BLANKED (ROCHE)			
BILIRUBIN, DIRECT	0.16	0.00 - 0.30	mg/dL
METHOD : DIAZOTIZATION			
BILIRUBIN, INDIRECT	0.40	0.00 - 0.60	mg/dL
METHOD : CALCULATED PARAMETER			
TOTAL PROTEIN	8.4	6.6 - 8.7	g/dL
METHOD : BIURET			
ALBUMIN	4.9	3.97 - 4.94	g/dL
METHOD : BROMOCRESOL GREEN			
GLOBULIN	3.5	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
METHOD : CALCULATED PARAMETER			
ALBUMIN/GLOBULIN RATIO	1.4	1.0 - 2.0	RATIO
METHOD : CALCULATED PARAMETER			
ASPARTATE AMINOTRANSFERASE(AST/SGOT)	29	0 - 40	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)	**52 High**	0 - 41	U/L
METHOD : UV WITHOUT PYRIDOXAL-5 PHOSPHATE			
ALKALINE PHOSPHATASE	100	40 - 129	U/L
METHOD : PNPP - AMP BUFFER			
GAMMA GLUTAMYL TRANSFERASE (GGT)	42	8 - 61	U/L
METHOD : GAMMA GLUTAMYLCARBOXY 4NITROANILIDE			
LACTATE DEHYDROGENASE	**230 High**	135 - 225	U/L
METHOD : LACTATE -PYRUVATE UV			
GLUCOSE FASTING,FLUORIDE PLASMA			
FBS (FASTING BLOOD SUGAR)	84	74 - 106	mg/dL

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Test Report Status **Final**	Results	Biological Reference Interval	Units
METHOD : HEXOKINASE			
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN	9	6 - 20	mg/dL
METHOD : UREASE - UV			
URIC ACID, SERUM			
URIC ACID	5.3	3.4 - 7.0	mg/dL
METHOD : URICASE, COLORIMETRIC			
CALCIUM, SERUM			
CALCIUM	10.0	8.6 - 10.0	mg/dL
METHOD : NM-BAPTA			
CREATININE EGFR			
CREATININE	1.00	0.70 - 1.20	mg/dL
METHOD : ALKALINE PICRATE-KINETIC			
AGE	31		years

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GLOMERULAR FILTRATION RATE (MALE)	103	GFR of +90 normal or minimal kidney damage with normal GFR 89- 60 mild decrease 59-30 moderate decrease 29-15 severe decrease < 15 kidney failure (units: mL/min/1.73mSq.)	

Interpretation(s)

GLUCOSE POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR)	99	Non-Diabetes 70 - 140	mg/dL

METHOD : HEXOKINASE

Interpretation(s)
LIVER FUNCTION PROFILE, SERUM-
Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.**Elevated levels** results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.
AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.

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ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilsons disease.
GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.
Total Protein also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstroms disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.
Albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc
GLUCOSE FASTING,FLUORIDE PLASMA-**TEST DESCRIPTION**
Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and sothat no glucose is excreted in the urine.
Increased in:Diabetes mellitus, Cushing' s syndrome (10 – 15%), chronic pancreatitis (30%). Drugs:corticosteroids,phenytoin, estrogen, thiazides.
Decreased in :Pancreatic islet cell disease with increased insulin,insulinoma,adrenocortical insufficiency,hypopituitarism,diffuse liver disease, malignancy(adrenocortical,stomach,fibrosarcoma),infant of a diabetic mother,enzyme deficiency diseases(e.g.galactosemia),Drugs-insulin,ethanol,propranolol;sulfonylureas,tolbutamide,and other oral hypoglycemic agents.
NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values),there is wide fluctuation within individuals.Thus, glycosylated hemoglobin(HbA1c) levels are favored to monitor glycemic control.
High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment,Renal Glyosuria,Glycaemic index & response to food consumed,Alimentary Hypoglycemia,Increased insulin response & sensitivity etc.
BLOOD UREA NITROGEN (BUN), SERUM-**Causes of Increased** levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)
Causes of decreased level include Liver disease, SIADH.
URIC ACID, SERUM-**Causes of Increased levels:**-Dietary(High Protein Intake,Prolonged Fasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type 2 DM,Metabolic syndrome **Causes of decreased levels**-Low Zinc intake,OCP,Multiple Sclerosis
CALCIUM, SERUM-**Common causes of decreased value of calcium (hypocalcemia)** are chronic renal failure, hypomagnesemia and hypoalbuminemia.
Hypercalcemia (increased value of calcium) can be caused by increased intestinal absorption (vitamin D intoxication), increased skeletal reabsorption (immobilization), or a combination of mechanisms (primary hyperparathyroidism). Primary hyperparathyroidism and malignancy accounts for 90-95% of all cases of hypercalcemia.
Values of total calcium is affected by serum proteins, particularly albumin thus, latter's value should be taken into account when interpreting serum calcium levels. The following regression equation may be helpful.
Corrected total calcium (mg/dl)= total calcium (mg/dl) + 0.8 (4- albumin [g/dl])*
because regression equations vary among group of patients in different physiological and pathological conditions, mathematical corrections are only approximations. The possible mathematical corrections should be replaced by direct determination of free calcium by ISE. A common and important source of preanalytical error in the measurement of calcium is prolonged torniquet application during sampling. Thus, this along with fist clenching should be avoided before phlebotomy.
GLUCOSE POST-PRANDIAL, PLASMA-Spectrophotometry Hexokinase

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MC-2559

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Test Report Status **Final**	Results	Biological Reference Interval	Units

BIOCHEMISTRY - LIPID

LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL	**209 High**	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : CHOLESTEROL OXIDASE, ESTERASE,PEROXIDASE			
TRIGLYCERIDES	**159 High**	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/= 500 Very High	mg/dL
METHOD : ENZYMATIC ASSAY			
HDL CHOLESTEROL	**39 Low**	< 40 Low >/=60 High	mg/dL
METHOD : DIRECT MEASURE - PEG			
LDL CHOLESTEROL, DIRECT	**139 High**	< 100 Optimal 100 - 129 Near or above optimal 130 - 160 Borderline High 161 - 189 High >/= 190 Very High	mg/dL
METHOD : CHOLESTEROL OXIDASE, ESTERASE,PEROXIDASE			
NON HDL CHOLESTEROL	**170 High**	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
VERY LOW DENSITY LIPOPROTEIN	31.8	Desirable value : 10 - 35	mg/dL
METHOD : CALCULATED PARAMETER			
CHOL/HDL RATIO	**5.4 High**	3.3-4.4 Low Risk 4.5-7.0 Average Risk 7.1-11.0 Moderate Risk > 11.0 High Risk	

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LDL/HDL RATIO	**3.6 High**	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	

METHOD : CALCULATED PARAMETER

Interpretation(s)

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CLINICAL PATH - URINALYSIS

URINALYSIS

PHYSICAL EXAMINATION, URINE

COLOR	YELLOW		
METHOD : MANUAL EXAMINATION			
APPEARANCE	CLEAR		
METHOD : MANUAL EXAMINATION			

CHEMICAL EXAMINATION, URINE

PH	7.0	4.7 - 7.5	
METHOD : DOUBLE INDICATOR PRINCIPLE			
SPECIFIC GRAVITY	1.010	1.003 - 1.035	
METHOD : REFLECTANCE PHOTOMETRY (IONIC CONCENTRATION)			
PROTEIN	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTION PHOTOMETRY (PROTEIN ERROR INDICATOR)			
GLUCOSE	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTANCE PHOTOMETRY (GLUCOSE OXIDASE METHOD)			
KETONES	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTION PHOTOMETRY (NITROPRUSSIDE)			
BLOOD	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTANCE PHOTOMETRY (BENZIDINE REACTION)			
BILIRUBIN	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTANCE SPECTROPHOTOMETRY (DIAZO REACTION)			
UROBILINOGEN	NORMAL	NORMAL	
METHOD : REFLECTANCE PHOTOMETRY (EHRLICH'S REACTION)			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTANCE SPECTROPHOTOMETRY (DIAZO REACTION)			

MICROSCOPIC EXAMINATION, URINE

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RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S)	1-2	0-5	/HPF
EPITHELIAL CELLS	NOT DETECTED	0-5	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED		
BACTERIA	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTANCE SPECTROPHOTOMETRY			
YEAST	NOT DETECTED	NOT DETECTED	

Interpretation(s)

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UID:13019035 REQNO-1673134
CORP-OPD
BILLNO-1002124OPCR003845
BILLNO-1002124OPCR003845

Test Report Status **Final**	Results	Biological Reference Interval	Units
SPECIALISED CHEMISTRY - HORMONE			
THYROID PANEL, SERUM			
T3	114.0	80.00 - 200.00	ng/dL
METHOD : SANDWICH (ECLIA)			
T4	6.50	5.10 - 14.10	µg/dL
METHOD : SANDWICH (ECLIA)			
TSH (ULTRASENSITIVE)	0.979	0.270 - 4.200	µIU/mL
METHOD : SANDWICH (ECLIA)			

Interpretation(s)

Meenakshi Malhotra

Ritu Pankaj

Dr. Meenakshi Malhotra (MD, Pathology)
Senior Consultant,48159

Dr. Ritu Pankaj (MD,Pathology), PDCC
Additional Director, 30897

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Email : lab.mohali@fortishealthcare.com

ULR No.6000003311535-0006

DIAGNOSTIC REPORT

MC-2559

Fortis HOSPITAL Mohali

PATIENT NAME : MULTANI JASPINDER SINGH **REF. DOCTOR :** SELF

CODE/NAME & ADDRESS : C000045483 - FORTIS FORTIS MOHALI-CHC -SPLZD FORTIS HOSPITAL – MOHALI, MOHALI 160062 7087030817	ACCESSION NO : **0006XC008236** PATIENT ID : FH.13019035 CLIENT PATIENT ID: UID:13019035 ABHA NO :	AGE/SEX : 31 Years Male DRAWN : 08/03/2024 09:07:00 RECEIVED : 08/03/2024 15:35:34 REPORTED : 08/03/2024 21:32:26

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SPECIALISED CHEMISTRY - TUMOR MARKER

PROSTATE SPECIFIC ANTIGEN, SERUM

PROSTATE SPECIFIC ANTIGEN	0.590	0.0 - 1.4	ng/mL

METHOD : SANDWICH (ECLIA)

Interpretation(s)
PROSTATE SPECIFIC ANTIGEN, SERUM-- PSA is detected in the male patients with normal, benign hyperplastic and malignant prostate tissue and in patients with prostatitis.
- PSA is not detected (or detected at very low levels) in the patients without prostate tissue (because of radical prostatectomy or cystoprostatectomy) and also in the female patients.
- It a suitable marker for monitoring of patients with Prostate Cancer and it is better to be used in conjunction with other diagnostic procedures.
- Serial PSA levels can help determine the success of prostatectomy and the need for further treatment, such as radiation, endocrine or chemotherapy and useful in detecting residual disease and early recurrence of tumor.
- Elevated levels of PSA can be also observed in the patients with non-malignant diseases like Prostatitis and Benign Prostatic Hyperplasia.
- Specimens for total PSA assay should be obtained before biopsy, prostatectomy or prostatic massage, since manipulation of the prostate gland may lead to elevated PSA (false positive) levels persisting up to 3 weeks.
- As per American urological guidelines, PSA screening is recommended for early detection of Prostate cancer above the age of 40 years. Following Age specific reference range can be used as a guide lines.
- Measurement of total PSA alone may not clearly distinguish between benign prostatic hyperplasia (BPH) from cancer, this is especially true for the total PSA values between 4-10 ng/mL.
- Total PSA values determined on patient samples by different testing procedures cannot be directly compared with one another and could be the cause of erroneous medical interpretations. Recommended follow up on same platform as patient result can vary due to differences in assay method and reagent specificity.

References-
1. Burtis CA, Ashwood ER, Bruns DE. Teitz textbook of clinical chemistry and Molecular Diagnostics. 4th edition.
2. Williamson MA, Snyder LM. Wallach's interpretation of diagnostic tests. 9th edition.

****End Of Report****
Please visit www.agilusdiagnostics.com for related Test Information for this accession

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ULR No.6000003311535-0006

DIAGNOSTIC REPORT

MC-2559

Fortis HOSPITAL Mohali

PATIENT NAME : MULTANI JASPINDER SINGH **REF. DOCTOR :** SELF

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Test Report Status **Final**	Results	Biological Reference Interval	Units

CONDITIONS OF LABORATORY TESTING & REPORTING

1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All tests are performed and reported as per the turnaround time stated in the AGILUS Directory of Services.
3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
4. A requested test might not be performed if:
   i. Specimen received is insufficient or inappropriate
   ii. Specimen quality is unsatisfactory
   iii. Incorrect specimen type
   iv. Discrepancy between identification on specimen container label and test requisition form
5. AGILUS Diagnostics confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
8. Test results cannot be used for Medico legal purposes.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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