



SRI SELLAM
Clinical Lab

113/4, Sulthanpet
Near Panchamuga Vinayagar Kovil
P. Velur - 638182, Namakkal Dt.
Off : 04268-222750
Off : 7373734265
E-mail : srisellamlab@gmail.com

R. Muthusamy B.Sc., Bio Chemist

Mobile : 94423 34265, 73730 34265

TO WHOMSOEVER ~~REPORT~~ MAY CONCERN

Dear Madam,


We performed the Inter lab comparison and internal quality assurance for our laboratory. Internal quality assurance report value and Inter lab comparison report value variation is acceptable performance. We have attached corrective action report (**Ref Format Number/SSCL/36, Rev No: 01, Date:10-09-2020**). Kindly accept our request and make us favour.

Thank you

Yours Sincerely

Muthusamy R
Proprietor
Sri Sellam Clinical Lab

SRI SELLAM CLINICAL LAB
113/4, Sulthanpet
Near Panchamuga Vinayagar Kovil
P. VELUR - 638182, Namakkal Dt.
Cell: 94423 34265

	SRI SELLAM CLINICAL LAB	FORMAT NUMBER: F/SSCL/36
	PROCESS NON-CONFORMITY AND CORRECTIVE ACTION REPORT	

Report No. : 01	Date: 14-08-2020
Department/ Section: Testing (Bio Chemistry)	
PROCESS NON-CONFORMITY (NC) STATEMENT:	
<p>Our lab External Quality Assurance Scheme report value is Unacceptable performance.</p> <p style="text-align: right;"><i>R. Muthu</i> 15/08/2020 Signature of lab in-charge & date</p>	
CORRECTIVE ACTION PROPOSED:	
<ol style="list-style-type: none"> 1. We do the internal quality assurance for our laboratory. 2. We do the Inter lab comparison for LISTER METROPOLIS laboratory. 3. We performed the September Month EQAS for CMC. <p style="text-align: right;"><i>R. Muthu</i> 15/08/2020 Signature of lab in-charge & date</p>	
RESPONSIBILITY & TIME REQUIRED FOR CORRECTIVE ACTION:	
<p>Mr. R. Muthusamy, Lab Incharge is taken the responsibility and target date is 25-09-2020.</p> <p style="text-align: right;"><i>R. Muthu</i> 15/08/2020 Signature of lab in-charge & date</p>	
ROOT CAUSE:	
<ol style="list-style-type: none"> 1. We do the performed well. but variation in the reagents used in measurement procedures may influence participant assessment in EQAS <p style="text-align: right;"><i>R. Muthu</i> 15/08/2020 Signature of lab in-charge & date</p>	
CORRECTIVE ACTION TAKEN:	
<ol style="list-style-type: none"> 1. We have done the internal quality assurance for our laboratory. Internal quality assurance report attached. IQA date is 23-09-2020. 2. We have done the Inter lab comparison for LISTER METROPOLIS laboratory. Inter lab Comparison report attached. ILC date is 22-09-2020 <p style="text-align: right;"><i>R. Muthu</i> 23/09/2020 Signature of lab in-charge & date</p>	
CORRECTIVE ACTION VERIFIED & COMMENTS, IF ANY	
<ol style="list-style-type: none"> 1. Internal quality assurance report and Inter lab comparison report value variation is acceptable performance. 2. September Month EQAS for CMC report are value variation is acceptable performance. <p style="text-align: right;"><i>R. MUTHUSAMY</i> <i>R. Muthu</i> 23/09/2020 Signature of Person responsible for management system & date</p>	

LAB MONTHLY SUMMARY

Lab Name **SRI SELLAM CLINICAL LAB**Lab No **13599**Month **September**Year **2020**Constituent Group **Chemistry I**Date of Result Entered : **10/09/2020**Date of Report Published : **07/10/2020**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	GOD-POD	Mindray	165	241.07	6.78	16.34	250 mg/dl	0.55	2.54
2	UREA	UREASE UV / GLDH	Mindray	163	137.22	8.80	12.08	131 mg/dl	-0.51	1.89
3	CREATININE	JAFFE RATE-BLANKED & COMPENSATED/Alkaline Picrate	Biosystems	207	1.43	12.04	0.17	1.4 mg/dl	-0.17	0.02
4	T.BILIRUBIN	DIAZONIUM SALT (Colorimetric) /JENDRASSIK	Mindray	124	5.32	8.80	0.47	5.1 mg/dl	-0.47	0.08
5	T-PROTEIN	BIURET - colorimetric	Mindray	161	5.33	6.10	0.32	5.7 g/dl	1.14	0.05
6	ALBUMIN	BCG - colorimetric	Mindray	162	3.33	7.70	0.26	3.3 g/dl	-0.12	0.04
7	CALCIUM	ARSENAZO III	Biosystems	134	11.23	9.36	1.05	12.4 mg/dl	1.11	0.18
8	PHOSPHORUS	Molybdate UV/ Phosphomolybdate complex	Biosystems	79	7.05	10.14	0.72	6.6 mg/dl	-0.63	0.16
9	URIC ACID	ENZYMATIC / URICASE Colorimetric	Mindray	134	7.22	6.93	0.50	9.2 mg/dl	3.96	0.09
10	CHOLESTEROL	CHOD-PAP	Mindray	158	109.57	8.74	9.57	115 mg/dl	0.57	1.52
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Mindray	155	97.98	12.22	11.98	119 mg/dl	1.75	1.92
12	HDL CHO	DIRECT METHOD / Enzymatic colorimetric	Mindray	107	24.51	11.16	2.74	20 mg/dl	-1.65	0.53
13	SODIUM	ISE - Direct	Mindray	25	140.56	3.08	4.33	137 mmol/L	-0.82	1.73
14	POTASSIUM	ISE - Direct	Any Analyser	124	4.22	6.37	0.27	4.2 mmol/L	-0.07	0.05
15	CHLORIDE	ISE - Direct	Any Analyser	100	110.27	4.73	5.21	113 mmol/L	0.52	1.04
16	BICARBONATE	ENZYMATIC - PEPC (Phosphoenolpyruvate)	Biosystems	19	21.71	18.24	3.96	21 mmol/L	-0.18	1.82
17	AST	UV-Kinetic without PLP (P-5-P)	Mindray	147	238.06	10.85	25.83	258 U/L	0.77	4.26
18	ALT	UV-Kinetic without PLP (P-5-P)	Mindray	148	117.15	15.60	18.28	113 U/L	-0.23	3.00
19	ALP	PNP AMP KINETIC	Mindray	97	69.47	17.76	12.34	69 U/L	-0.04	2.51
20	AMYLASE	CNPG3	Biosystems	101	161.12	13.78	22.20	189 U/L	1.26	4.42

21	MAGNESIUM	OTHERS (Any Other Principles / Methods)	Any Analyser	107	3.29	18.25	0.60	3.9 mg/dl	1.02	0.12
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SDI Range	Interpretation
Within -1.0 to +1.0	Excellent.
Between ± 1.0 to ± 2.0	Good.
Between ± 2.0 to ± 3.0	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

Contact details:

Email: clinqc@cmcvellore.ac.in

Contact Number: 0416-2283102

Pamela Christudoss

Dr. Pamela Christudoss
CMC EQAS Co-Ordinator
Christian Medical College, Vellore

***** End of Report *****



Mr. MUTHUSAMY

PID NO: P712000016927
Age: 43 Year(s) Sex: Male



Reference:

Sample Collected At:
SRI SELLAM CLINICAL LAB
Near Panchamuga Vinayagar Koil,
638182

VID: 712010012521

REPORT

Registered On:
22/09/2020 05:19 PM
Collected On:
22/09/2020 5:19PM
Reported On:
23/09/2020 06:40 PM

<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Glucose fasting (Plasma-F,GOD/POD)	99	mg/dL	Normal: < 100 Impaired Tolerance: 100-125 Diabetes mellitus: >= 126 (on more than one occassion) (American diabetes association guidelines 2014)
BUN-Blood Urea Nitrogen (Serum,Uricase UV)	9.0	mg/dL	8.9-20.6
Remark: In blood, Urea is usually reported as BUN and expressed in mg/dl. BUN mass units can be converted to urea mass units by multiplying by 2.14.			
Creatinine (Serum,Modified Jaffe's)	1.05	mg/dL	0.72-1.25
Uric Acid (Serum,Uricase/ Peroxidase)	8.0	mg/dL	3.5-7.2
Calcium (Serum,Arsenazo III dye)	9.0	mg/dL	8.4-10.2
Phosphorous (Serum,Ammonium Molybdate UV)	3.0	mg/dL	2.3-4.7
<u>Electrolytes</u> (Serum,ISE)			
Sodium	141	mmol/L	136-145
Potassium	4.2	mmol/L	3.5-5.1
Chlorides	105	mmol/L	98-107

Dr. K. Anbu Lenin.,Md Pathology
MD (Pathology).



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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<u>Lipid Profile-2</u>			
Cholesterol-Total (Serum, Chol. Esterase/Oxidase)	<u>220</u>	mg/dL	Desirable: < 200 Borderline High: 200-239 High: >= 240
Triglycerides level (Serum, PAP)	103	mg/dL	Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500
HDL Cholesterol (Serum, Accelerator Selective Detergent)	<u>32</u>	mg/dL	Major risk factor for heart disease: < 40 Negative risk factor for heart disease: >= 60
Non HDL Cholesterol (Serum, Enzymatic)	<u>188.0</u>	mg/dL	Optimal: < 130 Desirable: 130-159 Borderline high: 159-189 High: 189-220 Very High: >= 220
LDL Cholesterol (Serum, Enzymatic)	<u>167.4</u>	mg/dL	Optimal: < 100 Near Optimal: 100-129 Borderline high: 130-159 High: 160-189 Very High: >= 190
VLDL Cholesterol (Serum, Enzymatic)	20.6	mg/dL	6-38
LDL/HDL RATIO (Serum, Enzymatic)	<u>5.23</u>		2.5-3.5
CHOL/HDL RATIO (Serum, Enzymatic)	6.88		3.5-5

Note: Reference Interval as per National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report.

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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<u>Bilirubin Total, Direct, Indirect Serum</u>			
Bilirubin-Total (Serum, Di Chloro Aniline)	<u>1.92</u>	mg/dL	0.2-1.2
Bilirubin-Direct (Serum, Di Chloro Aniline)	0.50	mg/dL	0.0-0.5
Bilirubin- Indirect (Serum, Calculated)	<u>1.42</u>	mg/dL	0.1-1.0
SGOT (AST) (Serum, IFCC without P5P)	20.9	U/L	0-35
SGPT (ALT) (Serum, IFCC without P5P)	31.2	U/L	0-45
Alkaline Phosphatase (Serum, IFCC)	125.7	U/L	40-150
Gamma GT (GGTP) (Serum, Szaz Carbo oxalate substrate)	31.9	U/L	12-64
<u>Proteins</u>			
Total Protein (Serum, Biuret)	6.94	g/dL	6.4-8.3
Albumin (Serum, Bromocresol green)	4.09	g/dL	3.5-5.2
Globulin (Serum)	2.85	g/dL	1.8-3.6
A/G Ratio (Serum)	1.44		1.1-2.2



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<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Amylase level (Serum,Enzymatic)	97	U/L	28-100

Interpretation:

1. Amylase levels are significantly increased in patients with acute pancreatitis, pancreatic duct obstruction, carcinoma pancreas, ovaries, or lungs, cholecystitis, macroamylasemia, renal disease, pancreatic pseudocyst, procedures like Endoscopic retrograde cholangiopancreatography and acute alcohol poisoning.
2. In acute pancreatitis, elevated amylase levels usually parallel lipase concentrations, although lipase levels may take a bit longer to rise than blood amylase levels and will remain elevated longer.
3. Amylase levels are raised in aspirin, diuretics, oral contraceptives, corticosteroids, indomethacin, ethyl alcohol and opiate intake.

-- End of Report --



V. Kavita

Dr. Kavita V
MD, DIP NB



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R.Muthusamy B.Sc., Bio Chemist

Mobile : 94423 34265, 73730 34265

REPORT

SID No. : 005759
Name : MR. MUTHUSAMY
Age / Sex : 43 Years / Male
Mobile : 9442334265
Ref. By : Self

Patient ID : 0000002



Registered On : 23 Sep 20/14:39
Collected On : 23 Sep 20/14:39
Reported On : 23 Sep 20/14:47

LABORATORY TEST REPORT

Page # : 1/5

Specimen	Test Name / Method	Result	Units	Reference Value
HAEMATOLOGY				
EDTA	Total WBC Count	8,800	cells/cumm	4000 - 10000
<u>Differential Count</u>				
EDTA	Polymorphs	68.8	%	50 - 70
EDTA	Lymphocytes	26.6	%	20.0 - 40.0
EDTA	Eosinophils	4.6	%	1 - 6
EDTA	Monocytes	00	%	2.00 - 10.00
EDTA	Basophils	00	%	0 -2
<u>Absolute Differential Count</u>				
EDTA	#Absolute Polymorphs	6,100	cells/cumm	2000 - 8000
EDTA	#Absolute Lymphocytes	2,300	cells/cumm	800 - 7000
EDTA	#Absolute Eosinophils	400	cells/cumm	40 - 440
EDTA	Haemoglobin	15.1	gms %	Male: 13.5-17.0 Female: 12.0-15.0
EDTA	RBC Count	5.32	Millions/cmm	Male: 4.50-6.00 Female: 4.20-5.40
EDTA	*Haematocrit(PCV)	43.4	%	Male: 40.00-52.00 Female: 38.00-45.00
EDTA	MCV	81.6	fl	80 - 100 fl
EDTA	MCH	28.3	pg	27 - 34 pg
EDTA	MCHC	34.7	%	31 - 37 g/dL



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LABORATORY TEST REPORT

Page # : 2/5

Specimen	Test Name / Method	Result	Units	Reference Value
	RDW-CV	13.2	%	11.6-16.0
	RDW-SD	36.5	fl	35.0-56.0
EDTA	PLATELET COUNT	2,46,000	cells/cumm	150000-400000
EDTA	MPV	9.0	fl	6.5-12.0
	PDW	14.4	%	9.0-17.0
	PCT	0.221	%	0.108-0.282
BIOCHEMISTRY				
Fluoride Plasma	Fasting Blood Sugar	92	mg/dl	70 - 110
Serum	Blood Urea	20	mg/dl	10 - 40
Serum	Serum Creatinine	1.0	mg/dl	0.6 - 1.2
Serum	Serum Uric Acid	9.2	mg/dl	Male : 3.5- 7.2 Female: 2.5- 6.0
Serum Electrolytes				
Serum	Sodium (Na ⁺)	137	mEq/L	135 - 155
Serum	Potassium(K ⁺)	4.0	mEq/L	3.5 - 5.5
Serum	Chloride (Cl ⁻)	108	mEq/L	Adult : 94 -110
Serum	Bicarbonate (HCO ₃ ⁻) [Enzymatic method]	23	mEq/L	ADULT : 22 - 30
Serum	CALCIUM	10.6	mg/dl	Children 0 - 10 Days : 7.6 - 10.4 10 days-2 yrs: 9.0 - 11.0 2 - 12 yrs : 8.8 - 10.8 Adults:8.2 - 10.2



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LABORATORY TEST REPORT

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Specimen	Test Name / Method	Result	Units	Reference Value
Serum	Phosphorus [UV - Phosphomolybdate]	3.8	mg/dl	2.5 - 4.5
Serum	MAGNESIUM	1.6	mg/dl	Newborns: 1.5 - 2.3 mg/dl Children: 1.7 - 2.2 mg/dl Adults : 1.6 - 2.8 mg/dl

Note : Method: Photometric

LIPID PROFILE

Serum	Total Cholesterol	228	mg/dl	Desirable: Less than 200 Borderline High: 200-239 High: More than 240
Serum	HDL Cholesterol(Direct)	61	mg/dl	Normal : More than 50 Moderate Risk: 35 - 50 High Risk : Less than 35
Serum	Triglycerides	82	mg/dl	Normal: Less than 150 Normal Risk : 150-199 High Risk: 200-499 Very High Risk : >500
Serum	LDL Cholesterol	150.6	mg/dl	Normal: Less than 129 Borderline High: 130-159 High: 160-189 Very High: More than 190
Serum	VLDL Cholesterol [Calculated]	16.4	mg/dl	10 - 40
	Total Cho/HDL Ratio [Calculated]	3.74		3.5 - 5.0
	LDL / HDL Ratio [Calculated]	2.47		1.5 - 3.5
	Non HDL Cholesterol [Calculated]	167	mg/dl	Less Than 160



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LABORATORY TEST REPORT

Page # : 4/5

Specimen	Test Name / Method	Result	Units	Reference Value
LIVER FUNCTION TEST				
	BILIRUBIN TOTAL	1.4	mg/dl	ADULT : 0.2 - 1.2
Serum	BILIRUBIN DIRECT	0.7	mg/dl	0.00-0.30
Serum	BILIRUBIN INDIRECT	0.70	mg/dl	0.00 - 0.9
Serum	Asparatate Aminotranferase [SGOT (AST)]	39	U/L	upto 35
Serum	Alaine Transaminase [SGPT (ALT)]	55	U/L	Upto 35
Serum	Alkaline Phosphatase [ALP]	95	IU/L	Child upto 15 yrs : 54 - 369 15 yrs to 50 yrs [Male] : 53 - 128 15 yrs to 50 yrs [Female]: 42 - 98 more than 50 yrs [Male] : 56 -119 more than 50 yrs [Female]: 53 -141 Pregnancy : 38 -229
Serum	GAMMA GLUTAMYLTRANSFERASE	25	U/L	10.00 - 55.00
Serum	Total Protein	6.9	gram/dl	6.3 - 8.2
Serum	Serum Albumin	3.9	gram/dl	3.5 - 5.0
Serum	Serum Globulin [Calculated]	3.00	gram/dl	2.3 - 3.6
Serum	A/G Ratio [Calculated]	1.30	Ratio	0.9 - 2.0
Serum	AMYLASE [DIRECT SUBSTRATE METHOD]	99	IU/L	UPTO 90



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LABORATORY TEST REPORT

Page # : 5/5

Specimen	Test Name / Method	Result	Units	Reference Value
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End of the Report

BIOCHEMISTRY

LAB TECHNICIAN