

#### **CHRISTIAN MEDICAL COLLEGE**

#### **DEPARTMENT OF CLINICAL BIOCHEMISTRY**

# CMC EXTERNAL QUALITY ASSURANCE SCHEME MONTHLY SUMMARY REPORT - NOVEMBER 2023



Lab Name MEDITRUST DIAGNOSTIC CENTRE Lab No 18608

Constituent Group Chemistry II Date of Result Entered : 20/11/2023

PT item Lyophilized human serum based Date of Report Published : 05/12/2023

SI.No	Amaluta	Method / Principle	Analyses Name	No of DV		Participant		Your SDI		U
SI.NO	Analyte	Name	Analyzer Name	Participants	DV	CV	SD	Value	SDI	U
1	GLUCOSE II	GOD-POD II	Any Analyser (Automation / Semi Automation )	1594	238.88	9.59	22.91	238 mg/dL	-0.04	1.15
2	UREA II	Urease UV / GLDH II	Any Analyser (Automation / Semi Automation )	1098	67.14	11.47	7.70	69 mg/dL	0.24	0.46
3	CREATININE II	Jaffes Kinetic- Alkaline Picrate II	Any Analyser (Automation / Semi Automation )	1210	4.52	12.57	0.57	4.3 mg/dL	-0.39	0.03
4	T.BILIRUBIN II	Diazonium Salt ( Colorimetric ) / Jendrassik II	Any Analyser (Automation / Semi Automation )	1211	1.15	23.45	0.27	2.63 mg/dL	5.48	0.02
5	T-PROTEIN II	Biuret - Colorimetric II	Any Analyser (Automation / Semi Automation )	1305	4.77	13.33	0.64	<b>5.79</b> g/dL	1.60	0.04
6	ALBUMIN II	BCG - Colorimetric	Any Analyser (Automation / Semi Automation )	1267	2.90	11.42	0.33	3.46 g/dL	1.69	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Any Analyser (Automation / Semi Automation )	1323	8.13	12.01	0.98	9.2 mg/dL	1.10	0.05
8	CHOLESTROL II	CHOD-PAP II	Any Analyser (Automation / Semi Automation )	1480	98.77	11.12	10.98	129 mg/dL	2.75	0.57
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Any Analyser (Automation / Semi Automation )	1379	88.73	18.66	16.56	138 mg/dL	2.98	0.89

SDI Range	Interpretation	
Within -1.00 to +1.00	Excellent.	
Within ±1.01 to ±2.00	Good.	
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.	
Beyond ±3.0	Unacceptable performance. Action Signal.	

**LAB ADDRESS:** 

MEDITRUST DIAGNOSTIC CENTRE 439, ANUKUL CHANDRA ROAD GARIA WEST BENGAL700084

Coordinator Contact Details:

Email:clinqc@cmcvellore.ac.in

Contact Number: 0416-2283102

Dr. Pamela Christudoss

CMC EQAS Coordinator

Christian Medical College, Vellore

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

CMC EQAS does not sub contract any components

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

Panela Christudoss





Health is the first step to prosperity.

INV. No. Patient Name Age/Gen Referred By Source MTR-INV-L-533/2023(22660)
Ms. DEBANJANA DEBNATH
25 Years | Female
Dr. Hospital
HOIP

Barcode No Invoice Generated Sample Received Report Generated

68728 15/12/2023 10:09 AM 15/12/2023 10:09 AM 15/12/2023 11:22 AM

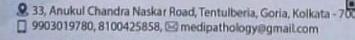
Report Of Biochemistry Examination

Investigation	Result	Unit(s)	Reference Range
BILIRUBIN (TOTAL AND DIRECT) Serum Bilirubin ( Total ) Method (Jendrassik & Grof Method)	0.81	mg/dL	Upto 1.0
Serum Bilirubin ( Conj ) Method (jendrassik & Grof Method)	0.20	mg/dL	Upto 0.25
Serum Bilirubin ( Uncon ) Method (Calculated)	0.61	mg/dL	<0.75

 In newborns with CB levels ≥0.5 mg/dL and <2 mg/dL, the infection must be ruled out, and the newborn should be observed. In newborns with levels ≥2 mg/dL, a more in-depth assessment of the hepatobiliary system is indicated. (interpreting conjugated bilirubin level in newborns. (Epub 2010 Nov 12))

---- End of report ----

Dr. Aniruddha Saha MBBS, MD Consultant Pathologisi







NAME: Ms. DE

SpecimenType: Serum

Ms. DEBJANA DEBNATH

Patient ID: 012312150452
Referred BY: Dr. HOSPITAL
Age/Gender: 25 Y/Female
LabID: 1390498

UHID No.:

Collection DATE

488648

Collection DATE: 15/Dec/2023 07:35 PM Received DATE/TIME: 15/Dec/2023 07:39 PM

Approved DATE/TIME: CLIENT Grp.: 15/Dec/2023 08:15 PM MEDITRUST DIAGNOSTICS

Report STATUS:

**Final Report** 

#### **DEPARTMENT OF BIOCHEMISTRY**

Test Description	Observed Value	Unit	Method	Biological Ref. Interval
BILIRUBIN (DIRECT And IND	RECT)*			
Bilirubin Total	0.76	mg/dL	Diazo	0.20 - 1.20
Bilirubin, Direct	0.21	mg/dL	Diazo	0.00-0.30
Bilirubin, Indirect	0.55	mg/dL	Calculated	0.20-0.70

\*\*\* End Of Report \*\*\*

Amula Ghush

Dr. Amrita Ghosh MBBS,MD(Biochem) Consultant Biochemist Reg.No. 55704





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Dr. Soumick Sarkar MBBS,MD(PAth) Consultant pathologist Reg.No. 60092

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(Department of Pathology)

Root cause analysis of outlier parameter for EQAS performance

Format No: MDC/FM/92

**Observations** 

SL No

**Check Points** 

Name of	Parameter (s): T. GIL	Month: NOVEMBER
Cycle No	o / Sample No/ Distribution No: NOV, 2023	Year: 2023
CLERIC	CAL ERRORS	
1.	Transcription error (may be pre- or post-analytical factors)	-NIL -
2.	Wrong method has been registered for analysis or method change not updated	- NIL-
METHO	DOLOGICAL PROBLEM	
3.	Instrument function checks (e.g., temperatures, blank readings pressures) not performed as necessary, or results not within acceptable range.	s, n - NIL-
4.	Scheduled instrument maintenance not performed appropriately.	- NIL-
5.	Incorrect instrument calibration.	- NIL-
6.	Standards or reagents improperly reconstituted and stored, of inadvertently used beyond expiration date.	NIL -
7.	Instrument probes misaligned.	- NIL -
8.	Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to evaluate succeptoblems.	00700 10
9.	Problem in manufacture of reagents / standards, or wind instrument settings specified by manufacturer	NIL-
10.	Carry-over from previous specimen.	- NIL -
11.	Automatic pipettor not calibrated to acceptable precision ar accuracy.	nd NIL -
12.	Imprecision from result being close to detection limit of method	NIL-
. 13.	QC material not run within expiration date, or improperly stored	- NIL -
14.	QC material not run at relevant analyte concentration	- NIL -
15.	Result not within reportable range (linearity) for instrument reagent system.	/ - NIL.



(Department of Pathology)

Root cause analysis of outlier parameter for EQAS performance

Format No: MDC/FM/92

SL No	Check Points	Observations
16.	Obstruction of instrument tubing / orifice by clot or protein.	- NA -
17.	Incorrect incubation times.	- NA -
TECHN	ICAL PROBLEM	
18.	EQA material improperly reconstituted.	- NIL -
19.	Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).	NIL -
20.	Sample not placed in proper order on instrument.	-NIL-
21.	Result released despite unacceptable QC data.	-NIL-
22.	QC data within acceptable limits but showed trend suggestive of problem with the assay.	It shows some trans
23.	Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.	- NIL-
24.	Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.	- NIL -
25.	Calculation error or result reported using too few significant digits.	- NIL -
26.	Secondary specimen tubes incorrectly labeled.	- NIL -
PROBLI	EM WITH PROFICIENCY TESTING MATERIALS	
27.	PT sample with appropriate matrix to that as prescribed by the equipment manufacturer for testing of samples.	- NIL-
28.	Non-homogenous test material	- NIL-
29.	Haemolysis on an immune-haemtology program samples.	- NIL-
PROBLI	EM WITH EVALUATION OF RESULTS BY THE PT PROVID	DER
30.	Peer group not appropriate.	- NA -
31.	Inappropriate target value	- NA -



(Department of Pathology)
Root cause analysis of outlier parameter for EQAS performance

No	Check Points	Observations			
32.	Incorrect data entry by PT provider	- NA -			



(Department of Pathology)

Root cause analysis of outlier parameter for EQAS performance

		Format No: MDC/FM/92
SL No	Check Points	Observations

#### CONCLUSION:

T. Bill got outlier item may be due to roundom error as no ILC had been done as a convective action with NABL accreditated lab and parameter shall be strictly monitored in the next ERAS eyele.

Root Cause Analysis done by: Suy

Remarks: Parameter monitored in the next early.

Reviewed By: Jug



# MEDITRUST DIAGNOSTIC CENTRE (Department of Pathology) EQAS Corrective Action Details

SI. Polare Testing Date Sample No Outlier  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the corrective action of the parameter.  The hospien done of the parameter action.  The hospien done of the parameter action.  The hospien done of the parameter action.  The hospien done of the parameter action action action.  The hospien done of the parameter action.  The hospien done of the p	
reflore 18/11/23 Thilinubin Z score found 0.70 and the parameter.  vill be monitored in next excle.  2. ene 18/11/23 November, Cholestonel Red done and it has been observed as fundam error. Canometer will be monitored next excle. Sample has	Reviewed By
2. CMC 18/11/23 Cholestorel as fundam errors. fanometer will be monitored next excle. Sample has	Bulg
ReA done and it has been observed	Amy
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## MEDITRUST DIAGNOSTIC CENTRE (Department of Pathology)

Laboratory 1 : DISA

Laboratory 2 :

Laboratory` 3 :

SI. No	Date of Testing	ID No	Parameter	MDC	Lab 1	Lab 2	Lab 3	Mean	SD	Z-Score
1	15.12.2023		T.BILIRUBIN	0.81	0.76			0.785	0.035355	0.707107

Z- Score = (Lab 1 - Mean)/SD

Corrective	
action (≥2 Z-	Reviewed By
score)	
NA	Ang.