



# CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY  
CMC EXTERNAL QUALITY ASSURANCE SCHEME  
MONTHLY SUMMARY REPORT - JUNE 2023



PC-1024

Lab Name FAMILY HEALTH CENTRE Lab No 9960  
Constituent Group Chemistry I Date of Result Entered : 14/06/2023  
PT item Lyophilized human serum based Date of Report Published : 04/07/2023

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	GOD-POD	Agape	203	125.00	6.63	8.29	142.26 mg/dL	2.08	1.16
2	UREA	Urease UV / GLDH	Agape	220	48.09	6.66	3.20	48.58 mg/dL	0.15	0.43
3	CREATININE	Jaffes End point	Any Analyser (Automation / Semi Automation)	332	2.01	9.39	0.19	2.01 mg/dL	0.00	0.02
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Agape	191	3.00	12.36	0.37	3.97 mg/dL	2.61	0.05
5	T-PROTEIN	Biuret - Colorimetric	Agape	215	5.83	5.13	0.30	6 g/dL	0.57	0.04
6	ALBUMIN	BCG - colorimetric	Agape	209	3.68	6.22	0.23	3.83 g/dL	0.66	0.03
7	URIC ACID	Enzymatic / Uricase Colorimetric	Agape	229	4.93	9.73	0.48	4.85 mg/dL	-0.17	0.06
8	CHOLESTEROL	CHOD-PAP	Agape	240	116.77	9.74	11.37	135.9 mg/dL	1.68	1.47
9	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Agape	210	178.85	7.13	12.75	195.4 mg/dL	1.30	1.76
10	HDL	Direct method / Enzymatic colorimetric	Agape	181	27.37	9.76	2.67	72.73 mg/dL	16.99	0.40
11	AST	UV kinetic (with & without PLP (P-5-P))	Agape	209	65.80	9.46	6.22	56.2 U/L	-1.54	0.86
12	ALT	UV kinetic (with & without PLP (P-5-P))	Agape	191	48.76	12.65	6.17	30.4 U/L	-2.98	0.89
13	ALP	PNP AMP kinetic	Agape	97	124.22	15.91	19.77	164.72 U/L	2.05	4.01

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

LAB ADDRESS :  
FAMILY HEALTH CENTRE  
MEDICAL OFFICER, PANAVALLY, POOCHAKKAL, CHERTHALA  
ALAPPUZHA  
KERALA688526

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*Pamela Christudoss*  
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 \*\*\*\*\*

# RCA

**PROBLEM** : The value of some analytes are existing outside the normal limits.

**Why 1** : Low stability of the reagent.

**Why 2** : errors from reusable glasswares.

**Why 3** : Manul errors occurs in pipetting of reagents and samples.

**Why 4** : Errors from dilution of QC material.

**Why 5** : Temperature variation of refrigerator due to the interruption of current supply.

**Panavally**  
**19/07/2023**



Medical Officer  
Family Health Centre  
Panavally 688526

  
**MEDICAL OFFICER**  
**FHC PANAVALLY**

# CAPA

## DEFINE THE PROBLEM

In performing external quality programme, the value of some analytes are existing outside the normal limits.

## IDENTIFY THE ROOT CAUSE

- Low stability of the reagent .
- Errors from reusable glasswares.
- Manual error occurs in pipetting.
- Temperature variation of refrigerator due to interruption of current supply.

## RECOMMENED AND IMPLEMENT SOLUTIONS

- New reagent kits are implemented.
- Correct cleaning procedure are given to the cleaning staff regarding cleaning of reusable glasswares.
- Intermittent wiping of pipettes with tissue paper are promoted.
- Solar panel is implemented in the FHC for the uniflow of current to the laboratory.

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