

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Result Details For Cycle No 220104 and Sample No 01

Report Date : 23/05/2022

Instrument : ML-200

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	113.70	--	-0.36	-0.11
@ Sodium	mmol/L	125.40	--	-0.53	-0.62
@ Potassium	mmol/L	3.81	--	0.00	-0.08

Instrument : Roche cobas c 111

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
Glucose	mg/dl	81.90	65.63	2.77	0.56
@ Urea	mg/dl	18.65	20.26	-1.30	-0.25
@ Creatinine	mg/dl	0.70	0.76	-0.75	-1.29
@ Bilirubin Direct	mg/dl	0.20	0.21	-0.83	-0.26
Total Protein	g/dL	5.30	6.00	-2.06	-0.61
@ Albumin	g/dL	3.70	3.71	0.06	-0.38
@ LDH	U/L	149.70	154.30	0.57	0.22
@ Amylase	U/L	64.90	62.34	0.60	0.14
Lipase	U/L	24.60	26.38	-2.06	-0.99
@ LDL	mg/dl	82.50	80.63	0.31	-0.46
@ ALT	U/L	8.10	5.56	1.46	0.05
@ AST	U/L	13.40	14.05	-0.32	0.02
ALP	U/L	32.30	50.57	-2.84	0.54
X CK	U/L	70.80	44.20	6.73	0.49
@ GGT	U/L	21.60	22.01	-0.71	-0.56
@ Uric Acid	mg/dl	3.40	3.82	-1.09	-0.98
@ Calcium	mg/dl	7.40	7.49	-0.11	-0.64
@ Phosphorous Inorganic	mg/dl	3.50	3.91	-0.93	0.17
@ Cholesterol	mg/dl	140.20	147.13	-0.76	-0.10
@ Triglycerides	mg/dl	126.30	127.67	0.20	0.17
@ HDL	mg/dl	32.30	30.91	0.58	0.18

Legend @ : z score \leq 2.0 - Acceptable
 | : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⌚ : Delayed Result Entry
 * : Not considered for evaluation.

Total Parameters	24
Not Evaluated Parameters	0
Evaluated Parameters	24
Outlier Parameters (X)	1
EQAS Score Biochemistry	95.83 %

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
 PT coordinator & Technical Manager, MHL EQAS
 Unit No. 409-416,
 Commercial Building - 1A,
 Kharinor Mill, Kiroi Road, Kurla (W),
 Mumbai - 400070

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Outlier Details For Cycle No 220104 and Sample No 01

Report Date : 23/05/2022

Analyte	Instrument	Result Value	Standard Unit	Z-Score
X CK	Roche cobas c 111	70.80	U/L	6.73
Glucose	Roche cobas c 111	81.90	mg/dl	2.77
Total Protein	Roche cobas c 111	5.30	g/dL	-2.06
ALP	Roche cobas c 111	32.30	U/L	-2.84
Lipase	Roche cobas c 111	24.60	U/L	-2.06

Legend @ : z score \leq 2.0 - Acceptable
 | : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
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 * : Not considered for evaluation.

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____

MINU CLINICAL LABORATORY (558)
Outlier And Analyte Summary Report
Result Details For Cycle No 220104 and Sample No 02

Report Date : 23/05/2022

Instrument : ML-200

Analyte

@ Potassium

StandardUnit	Result Value	Mean	Z-Score	RMZ
mmol/L	3.60	--	-0.33	-0.08

Instrument : Roche cobas c 111

Analyte

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
X Glucose					
@ Urea	mg/dl	349.60	285.72	3.47	0.56
@ Creatinine	mg/dl	17.60	18.25	-0.65	-0.25
@ Bilirubin Total	mg/dl	2.60	2.87	-1.35	-1.29
@ Bilirubin Direct	mg/dl	0.60	0.54	0.88	0.35
Total Protein	mg/dl	0.40	0.37	-0.19	-0.26
@ GGT	g/dL	7.00	7.97	-2.39	-0.61
@ LDH	U/L	17.70	19.93	-1.54	-0.56
@ Amylase	U/L	136.80	141.27	0.72	0.22
Lipase	U/L	60.90	57.82	0.53	0.14
@ HDL	U/L	22.70	25.66	-2.51	-0.99
@ LDL	mg/dl	32.10	30.13	1.84	0.18
@ ALT	mg/dl	79.10	73.72	0.93	-0.46
@ AST	U/L	6.40	5.98	-0.30	0.05
ALP	U/L	13.30	13.16	-0.01	0.02
@ CK	U/L	60.00	45.68	2.28	0.54
@ Albumin	U/L	29.40	29.85	-0.60	0.49
@ Uric Acid	g/dL	6.10	5.93	0.87	-0.38
@ Calcium	mg/dl	3.20	3.51	-1.00	-0.98
@ Phosphorous Inorganic	mg/dl	7.69	7.15	1.16	-0.64
@ Cholesterol	mg/dl	3.30	3.58	-0.30	0.17
@ Triglycerides	mg/dl	135.80	138.06	0.01	-0.10
		122.30	122.59	0.34	0.17

Legend @ : z score ≤ 2.0 - Acceptable
 | : 2.0 < z score < 3.0 - Warning
 X : z score ≥ 3 - Unacceptable
 # : Not Evaluated
 ⊙ : Delayed Result Entry
 * : Not considered for evaluation.

Total Parameters	23
Not Evaluated Parameters	0
Evaluated Parameters	23
Outlier Parameters (X)	1
EQAS Score Biochemistry	95.65 %

Dr. Nigam

Dr Puneet Kumar Nigam
PT coordinator & Technical Manager, MHL EQAS
 Unit No. 409-416
 Commercial Building - 1A,
 Kohnoor Mall, Kirof Road, Kurla (W),
 Mumbai - 400070

Analyte	Instrument	Result Value	Standard Unit	Z-Score
X Glucose	Roche cobas c 111	349.60	mg/dl	3.47
! Total Protein	Roche cobas c 111	7.00	g/dL	-2.39
! ALP	Roche cobas c 111	60.00	U/L	2.28
! Lipase	Roche cobas c 111	22.70	U/L	-2.51

Legend @ : z score \leq 2.0 - Acceptable
 ! : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⌚ : Delayed Result Entry
 * : Not considered for evaluation.

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____

RCA & CAPA Form

Doc. No. _____ CQI/01

Rev. No. - 0 Date:

metroplex
23/5/2011

Variation Details:

Glucose / total protein / Alkaline Phosphatase
lipase

ROOT CAUSE ANALYSIS: Required: Yes Not recommended

Error (tracking using 5 Why Method) occurred because:

WHY? probably the EQAS Analyte had
got deteriorated

WHY? we had repeat the same analyte
again but the readings were same

WHY?

WHY?

WHY?

Root Cause Identified:

RCA & CAPA Form

Doc. No. _____ CQI/01

Rev. No. - 0 Date: _____

CMC May/2012

Variation Details:

Glucose / Alkaline Phosphate

ROOT CAUSE ANALYSIS: Required: Yes

Not recommended

Error (tracking using 5 Why Method) occurred because:

WHY? probably the EGAs Analyte CMC-velon
maydon had got deteriorated.

WHY? we had rerun the same analyte
but the reading were same.

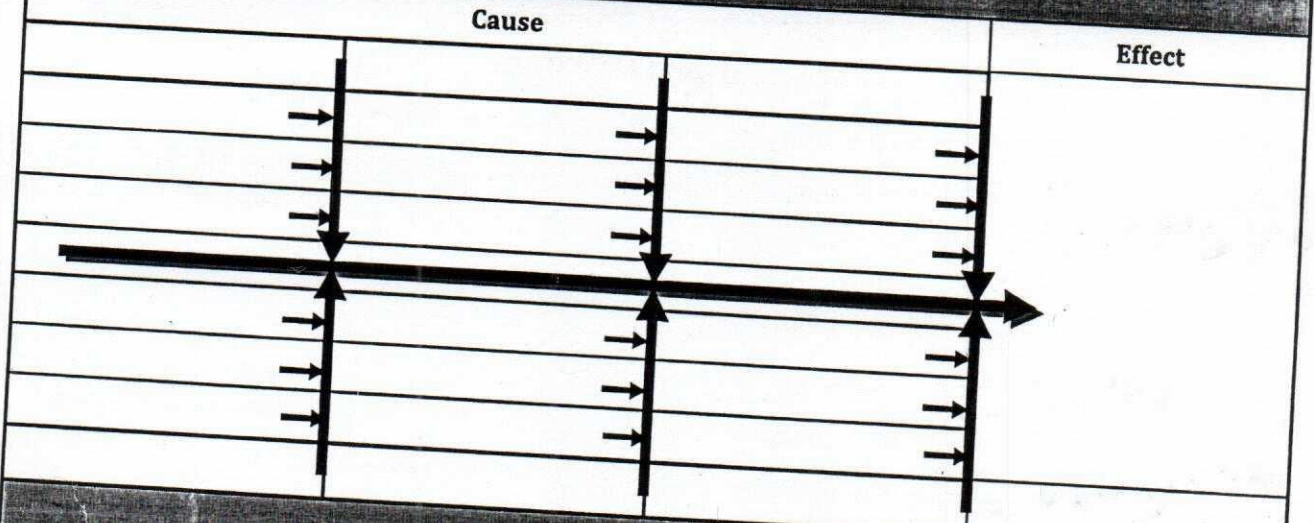
WHY?

WHY?

WHY?

Root Cause Identified:

ROOT CAUSE ANALYSIS



CORRECTIVE ACTION

For the analysis of ECGs our ZOC was within limits & the patient's history were matching with the clinical history. Hence reports were issued

PREVENTIVE ACTION

Responsibility of implementing CAPA:

Target Date for Completion:

9/6/2022

Review Date:

11/6/2022

Remarks:

Date

11/6/2022

Sign of HOD

J. Sharma

Quality Head

B/A





CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - MARCH 2022



PC-1024

Lab Name MINU CLINICAL LABORATORY

Lab No 0673

Constituent Group Chemistry I

Date of Result Entered : 17/03/2022

PT item Lyophilized Serum

Date of Report Published : 06/04/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Roche C111, C311, Integra 400 plus, C501, C502, C702	284	108.68	4.05	4.40	110.6 mg/dL	0.44	0.52
2	UREA	Urease UV / GLDH	Roche C111, C311, Integra 400 plus, C501, C502, C702	292	81.05	5.80	4.70	78.5 mg/dL	-0.54	0.55
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Roche C111, C311, Integra 400 plus, C501, C502, C702	248	4.28	5.00	0.21	3.7 mg/dL	-2.71	0.03
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Roche C111, C311, Integra 400 plus, C501, C502, C702	281	1.44	6.31	0.09	1.5 mg/dL	0.66	0.01
5	T-PROTEIN	Biuret - Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	289	4.66	5.00	0.23	6.7 g/dL	8.76	0.03
6	ALBUMIN	BCG - colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	280	3.07	4.20	0.13	2.9 g/dL	-1.32	0.02
7	CALCIUM	5-Nitro-5-methyl-BAPTA	Roche C111, C311, Integra 400 plus, C501, C502, C702	228	8.50	3.77	0.32	8.2 mg/dL	-0.93	0.04
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Roche C111, C311, Integra 400 plus, C501, C502, C702	220	3.49	4.52	0.16	3.5 mg/dL	0.06	0.02
9	URIC ACID	Enzymatic / Uricase Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	277	7.80	4.06	0.32	7.8 mg/dL	0.00	0.04
10	CHOLESTEROL	CHOD-PAP	Roche C111, C311, Integra 400 plus, C501, C502, C702	296	103.22	4.23	4.37	103 mg/dL	-0.05	0.51
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Roche C111, C311, Integra 400 plus, C501, C502, C702	263	217.37	4.09	8.88	212.2 mg/dL	-0.58	1.10
12	HDL CHO	Direct method / Enzymatic colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	263	21.70	5.05	1.10	22.1 mg/dL	0.37	0.14
13	SODIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	238	125.33	4.41	5.53	118.3 mmol/L	-1.27	0.72
14	POTASSIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	226	2.99	5.61	0.17	2.8 mmol/L	-1.13	0.02

15	CHLORIDE	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	172	89.51	5.25	4.70	90.2 mmol/L	0.15	0.72
16	ALP	PNP AMP kinetic	Roche C111, C311, Integra 400 plus, C501, C502, C702	275	182.68	7.94	14.50	191.7 U/L	0.62	1.75
17	AMYLASE	Enzymatic Colorimetric / G7PNP Blocked	Roche C111, C311, Integra 400 plus, C501, C502, C702	154	86.56	4.58	3.96	89 U/L	0.62	0.64

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 :
 MINU CLINICAL LABORATORY
 S.NO.718, SUNFLOWER BUILDING, ROYAL COMPLEX,EKSAR ROAD,BORIVALI [WEST]
 MUMBAI
 MAHARASHTRA400091

Coordinator Contact Details:
 Email: clinqc@cmcvellore.ac.in
 Contact Number: 0416-2283102

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 *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - APRIL 2022



PC-1024

Lab Name MINU CLINICAL LABORATORY

Lab No 0673

Constituent Group Chemistry I

Date of Result Entered : 19/04/2022

PT item Lyophilized Serum

Date of Report Published : 05/05/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Roche C111, C311, Integra 400 plus, C501, C502, C702	282	226.00	3.27	7.39	229.4 mg/dL	0.46	0.88
2	UREA	Urease UV / GLDH	Roche C111, C311, Integra 400 plus, C501, C502, C702	292	35.43	5.66	2.00	35.2 mg/dL	-0.11	0.23
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Roche C111, C311, Integra 400 plus, C501, C502, C702	249	5.32	5.09	0.27	4.8 mg/dL	-1.92	0.03
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Roche C111, C311, Integra 400 plus, C501, C502, C702	282	2.67	4.67	0.12	2.6 mg/dL	-0.56	0.01
5	T-PROTEIN	Biuret - Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	291	5.12	3.87	0.20	5.2 g/dL	0.40	0.02
6	ALBUMIN	BCG - colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	281	3.38	4.08	0.14	3.4 g/dL	0.14	0.02
7	CALCIUM	5-Nitro-5-methyl-BAPTA	Roche C111, C311, Integra 400 plus, C501, C502, C702	231	10.88	2.89	0.31	10.1 mg/dL	-2.48	0.04
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Roche C111, C311, Integra 400 plus, C501, C502, C702	224	5.99	3.32	0.20	5.7 mg/dL	-1.46	0.03
9	URIC ACID	Enzymatic / Uricase Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	277	6.61	4.04	0.27	6.3 mg/dL	-1.16	0.03
10	CHOLESTEROL	CHOD-PAP	Roche C111, C311, Integra 400 plus, C501, C502, C702	296	110.66	4.06	4.49	113.4 mg/dL	0.61	0.52
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Roche C111, C311, Integra 400 plus, C501, C502, C702	267	139.18	3.70	5.15	131.7 mg/dL	-1.45	0.63
12	HDL CHO	Direct method / Enzymatic colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	263	23.94	5.26	1.26	23.9 mg/dL	-0.03	0.16
13	SODIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	246	136.66	3.32	4.54	123 mmol/L	-3.01	0.58
14	POTASSIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	248	4.02	4.06	0.16	3.6 mmol/L	-2.58	0.02

15	CHLORIDE	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	197	105.12	3.67	3.86	121.7 mmol/L	4.30	0.55
16	ALP	PNP AMP kinetic	Roche C111, C311, Integra 400 plus, C501, C502, C702	283	119.98	6.54	7.85	156.1 U/L	4.60	0.93
17	AMYLASE	Enzymatic Colorimetric / G7PNP Blocked	Roche C111, C311, Integra 400 plus, C501, C502, C702	157	100.24	3.32	3.32	104.4 U/L	1.25	0.53

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 :

MINU CLINICAL LABORATORY

S.NO.718, SUNFLOWER BUILDING, ROYAL COMPLEX, EKSAR ROAD, BORIVALI [WEST]

MUMBAI

MAHARASHTRA400091

Coordinator Contact Details:
 Email: clinqc@cmcvellore.ac.in
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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 *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - MAY 2022



Lab Name MINU CLINICAL LABORATORY

Lab No 0673

Constituent Group Chemistry I

Date of Result Entered : 16/05/2022

PT Item Lyophilized Serum

Date of Report Published : 08/06/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	SD	Your Value	SDI	U
1	GLUCOSE	Hexokinase	Roche C111, C311, Integra 400 plus, C501, C502, C702	288	187.95	3.95	7.43	229.2 mg/dL	5.55	0.88
2	UREA	Urease UV / GLDH	Roche C111, C311, Integra 400 plus, C501, C502, C702	296	60.62	4.90	2.97	56.7 mg/dL	-1.32	0.35
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Roche C111, C311, Integra 400 plus, C501, C502, C702	253	2.63	5.62	0.15	2.5 mg/dL	-0.88	0.02
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Roche C111, C311, Integra 400 plus, C501, C502, C702	283	3.38	4.91	0.17	3.8 mg/dL	2.53	0.02
5	T-PROTEIN	Biuret - Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	297	5.45	4.13	0.22	6.6 g/dL	5.11	0.03
6	ALBUMIN	BCG - colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	286	3.55	3.35	0.12	3.6 g/dL	0.42	0.01
7	CALCIUM	5-Nitro-5-methyl-BAPTA	Roche C111, C311, Integra 400 plus, C501, C502, C702	235	11.52	3.63	0.42	11.2 mg/dL	-0.77	0.05
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Roche C111, C311, Integra 400 plus, C501, C502, C702	228	4.72	3.52	0.17	4.3 mg/dL	-2.53	0.02
9	URIC ACID	Enzymatic / Uricase Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	285	4.72	3.50	0.16	4.2 mg/dL	-3.15	0.02
10	CHOLESTEROL	CHOD-PAP	Roche C111, C311, Integra 400 plus, C501, C502, C702	302	119.46	4.25	5.07	117 mg/dL	-0.49	0.58
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Roche C111, C311, Integra 400 plus, C501, C502, C702	274	117.03	4.72	5.52	115.8 mg/dL	-0.22	0.67
12	HDL CHO	Direct method / Enzymatic colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	267	23.63	5.37	1.27	25.8 mg/dL	1.71	0.16
13	SODIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	226	141.14	3.58	5.06	134.3 mmol/L	-1.35	0.67
14	POTASSIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	237	4.72	5.29	0.25	4.5 mmol/L	-0.88	0.03

15	CHLORIDE	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	182	100.70	3.83	3.85	111.8 mmol/L	2.88	0.57
16	ALP	PNP AMP kinetic	Roche C111, C311, Integra 400 plus, C501, C502, C702	285	95.87	7.15	6.85	136.7 U/L	5.96	0.81
17	AMYLASE	Enzymatic Colorimetric / G7PNP Blocked	Roche C111, C311, Integra 400 plus, C501, C502, C702	156	54.29	4.33	2.35	56.6 U/L	0.98	0.38

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 :

MINU CLINICAL LABORATORY

S.NO.718, SUNFLOWER BUILDING, ROYAL COMPLEX, EKSAR ROAD, BORIVALI [WEST]

MUMBAI

MAHARASHTRA400091

Coordinator Contact Details:
 Email: clinqc@cmcvellore.ac.in
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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 *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
 CMC EXTERNAL QUALITY ASSURANCE SCHEME
 MONTHLY SUMMARY REPORT - MAY 2022



Lab Name MINU CLINICAL LABORATORY

Lab No

0673

Constituent Group Chemistry I

Date of Result Entered :

16/05/2022

PT item Lyophilized Serum

Date of Report Published :

08/06/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Roche C111, C311, Integra 400 plus, C501, C502, C702	288	187.95	3.95	7.43	229.2 mg/dL	5.55	0.88
2	UREA	Urease UV / GLDH	Roche C111, C311, Integra 400 plus, C501, C502, C702	296	60.62	4.90	2.97	56.7 mg/dL	-1.32	0.35
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Roche C111, C311, Integra 400 plus, C501, C502, C702	253	2.63	5.62	0.15	2.5 mg/dL	-0.88	0.02
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Roche C111, C311, Integra 400 plus, C501, C502, C702	283	3.38	4.91	0.17	3.8 mg/dL	2.53	0.02
5	T-PROTEIN	Biuret - Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	297	5.45	4.13	0.22	6.6 g/dL	5.11	0.03
6	ALBUMIN	BCG - colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	286	3.55	3.35	0.12	3.6 g/dL	0.42	0.01
7	CALCIUM	5-Nitro-5-methyl-BAPTA	Roche C111, C311, Integra 400 plus, C501, C502, C702	235	11.52	3.63	0.42	11.2 mg/dL	-0.77	0.05
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Roche C111, C311, Integra 400 plus, C501, C502, C702	228	4.72	3.52	0.17	4.3 mg/dL	-2.53	0.02
9	URIC ACID	Enzymatic / Uricase Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	285	4.72	3.50	0.16	4.2 mg/dL	-3.15	0.02
10	CHOLESTEROL	CHOD-PAP	Roche C111, C311, Integra 400 plus, C501, C502, C702	302	119.46	4.25	5.07	117 mg/dL	-0.49	0.58
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Roche C111, C311, Integra 400 plus, C501, C502, C702	274	117.03	4.72	5.52	115.8 mg/dL	-0.22	0.67
12	HDL CHO	Direct method / Enzymatic colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	267	23.63	5.37	1.27	25.8 mg/dL	1.71	0.16
13	SODIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	226	141.14	3.58	5.06	134.3 mmol/L	-1.35	0.67
14	POTASSIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	237	4.72	5.29	0.25	4.5 mmol/L	-0.88	0.03

15	CHLORIDE	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	182	100.70	3.83	3.85	111.8 mmol/L	2.88	0.57
16	ALP	PNP AMP kinetic	Roche C111, C311, Integra 400 plus, C501, C502, C702	285	95.87	7.15	6.85	136.7 U/L	5.96	0.81
17	AMYLASE	Enzymatic Colorimetric / G7PNP Blocked	Roche C111, C311, Integra 400 plus, C501, C502, C702	156	54.29	4.33	2.35	56.6 U/L	0.98	0.38

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 :

MINU CLINICAL LABORATORY

S.NO.718, SUNFLOWER BUILDING, ROYAL COMPLEX, EKSAR ROAD, BORIVALI [WEST]

MUMBAI

MAHARASHTRA400091

Coordinator Contact Details:
 Email: clinqc@cmcvellore.ac.in
 Contact Number: 0416-2283102

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 *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - JUNE 2022



PC-1024

Lab Name MINU CLINICAL LABORATORY

Lab No 0673

Constituent Group Chemistry I

Date of Result Entered : 20/06/2022

PT item Lyophilized Serum

Date of Report Published : 07/07/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Roche C111, C311, Integra 400 plus, C501, C502, C702	289	144.20	3.43	4.95	134.8 mg/dL	-1.90	0.58
2	UREA	Urease UV / GLDH	Roche C111, C311, Integra 400 plus, C501, C502, C702	299	85.69	5.12	4.39	83.2 mg/dL	-0.57	0.51
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Roche C111, C311, Integra 400 plus, C501, C502, C702	256	8.41	4.60	0.39	8.5 mg/dL	0.23	0.05
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Roche C111, C311, Integra 400 plus, C501, C502, C702	289	5.40	4.50	0.24	5.6 mg/dL	0.82	0.03
5	T-PROTEIN	Biuret - Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	301	4.11	4.12	0.17	4.2 g/dL	0.53	0.02
6	ALBUMIN	BCG - colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	292	2.72	4.71	0.13	2.8 g/dL	0.62	0.02
7	CALCIUM	5-Nitro-5-methyl-BAPTA	Roche C111, C311, Integra 400 plus, C501, C502, C702	230	7.70	3.94	0.30	8.7 mg/dL	3.30	0.04
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Roche C111, C311, Integra 400 plus, C501, C502, C702	231	2.66	3.94	0.10	2.6 mg/dL	-0.57	0.01
9	URIC ACID	Enzymatic / Uricase Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	288	9.98	4.18	0.42	9.8 mg/dL	-0.43	0.05
10	CHOLESTEROL	CHOD-PAP	Roche C111, C311, Integra 400 plus, C501, C502, C702	305	87.02	4.41	3.84	90.2 mg/dL	0.83	0.44
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Roche C111, C311, Integra 400 plus, C501, C502, C702	277	156.92	3.93	6.17	157.8 mg/dL	0.14	0.74
12	HDL CHO	Direct method / Enzymatic colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	271	18.56	4.31	0.80	18.6 mg/dL	0.05	0.10
13	SODIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	237	111.88	4.35	4.87	109.5 mmol/L	-0.49	0.63
14	POTASSIUM	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	233	2.01	8.28	0.17	1.9 mmol/L	-0.66	0.02

15	CHLORIDE	ISE - Indirect	Roche C111, C311, Integra 400 plus, C501, C502, C702	188	78.36	5.93	4.64	71.3 mmol/L	-1.52	0.68
16	ALP	PNP AMP kinetic	Roche C111, C311, Integra 400 plus, C501, C502, C702	278	343.24	7.18	24.66	334.1 U/L	-0.37	2.96
17	AMYLASE	Enzymatic Colorimetric / G7PNP Blocked	Roche C111, C311, Integra 400 plus, C501, C502, C702	158	40.90	3.99	1.63	46.8 U/L	3.62	0.26

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 :

MINU CLINICAL LABORATORY

S.NO.718, SUNFLOWER BUILDING, ROYAL COMPLEX, EKSAR ROAD, BORIVALI [WEST]

MUMBAI

MAHARASHTRA400091

Coordinator Contact Details:
 Email: clinqc@cmcvellore.ac.in
 Contact Number: 0416-2283102

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 *****

MINU CLINICAL LABORATORY (558)
Outlier And Analyte Summary Report
Result Details For Cycle No 210410 and Sample No 01

Report Date : 02/11/2021

Instrument : ML-200

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	118.00	--	0.18	0.01
@ Sodium	mmol/L	171.30	--	-0.87	-0.80
@ Potassium	mmol/L	6.49	--	-0.22	-0.20

Instrument : Roche cobas c 111

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Bilirubin Total	mg/dl	0.30	0.21	1.38	0.40
@ ALP	U/L	70.90	83.12	-1.15	0.30
@ Bilirubin Direct	mg/dl	0.10	0.10	0.00	-0.28
@ Total Protein	g/dL	6.30	6.49	-0.32	0.24
@ Albumin	g/dL	3.97	3.84	0.88	0.55
@ Uric Acid	mg/dl	3.60	3.98	-1.31	-0.63
@ Calcium	mg/dl	7.60	7.74	-0.50	-1.07
@ Triglycerides	mg/dl	144.60	142.47	0.43	0.16
@ ALT	U/L	14.30	14.12	0.10	-0.01
@ AST	U/L	26.30	24.03	0.72	0.37
@ CK	U/L	85.20	79.65	0.76	-0.04
@ GGT	U/L	19.30	20.78	-1.25	-0.49
@ LDH	U/L	167.80	167.10	-0.18	-0.19
@ Amylase	U/L	66.00	64.68	-0.14	0.35
@ Lipase	U/L	36.90	38.73	0.07	-0.47

Legend @ : z score \leq 2.0 - Acceptable
! : 2.0 < z score < 3.0 - Warning
X : z score \geq 3 - Unacceptable
: Not Evaluated
⌚ : Delayed Result Entry
* : Not considered for evaluation.

Total Parameters	18
Not Evaluated Parameters	0
Evaluated Parameters	18
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
PT coordinator & Technical Manager, MHL EQAS
Unit No. 409-416,
Commercial Building - 1A,
Kohinoor Mall, Kiroli Road, Kurla (W),
Mumbai - 400070

End of Report

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Outlier Details For Cycle No 210410 and Sample No 01

Report Date : 02/11/2021

Analyte	Instrument	Result Value	Standard Unit	Z-Score
No Outlier				
Legend @ : z score \leq 2.0 - Acceptable † : 2.0 < z score < 3.0 - Warning X : z score \geq 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Result Details For Cycle No 210410 and Sample No 02

Report Date : 02/11/2021

Instrument : ML-200

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	113.60	--	-0.10	0.01
@ Sodium	mmol/L	168.60	--	-0.33	-0.80
@ Potassium	mmol/L	6.31	--	0.34	-0.20

Instrument : Roche cobas c 111

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Bilirubin Direct	mg/dl	0.03	0.10	-1.64	-0.28
@ ALP	U/L	73.00	85.73	-0.83	0.30
@ Bilirubin Total	mg/dl	0.20	0.21	0.13	0.40
@ Total Protein	g/dL	6.50	6.64	-0.20	0.24
@ Albumin	g/dL	4.07	3.94	0.73	0.55
@ Uric Acid	mg/dl	3.70	4.02	-0.99	-0.63
@ Calcium	mg/dl	7.60	7.79	-0.47	-1.07
@ Triglycerides	mg/dl	162.00	151.01	0.71	0.16
@ ALT	U/L	18.60	16.49	0.41	-0.01
@ AST	U/L	28.00	25.04	0.75	0.37
@ CK	U/L	80.60	74.30	1.01	-0.04
@ GGT	U/L	16.80	17.54	-1.03	-0.49
@ LDH	U/L	176.80	177.40	0.09	-0.19
@ Amylase	U/L	67.40	67.00	-0.24	0.35
@ Lipase	U/L	33.70	35.50	-0.27	-0.47

Legend @ : z score \leq 2.0 - Acceptable
 ! : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⌚ : Delayed Result Entry
 * : Not considered for evaluation.

Total Parameters	18
Not Evaluated Parameters	0
Evaluated Parameters	18
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
 PT coordinator & Technical Manager, MHL EQAS
 Unit No. 409-416,
 Commercial Building - 1A,
 Kohinoor Mall, Kiroli Road, Kurla (W),
 Mumbai - 400070

End of Report

MINU CLINICAL LABORATORY (558)
Outlier And Analyte Summary Report

Outlier Details For Cycle No 210410 and Sample No 02

Report Date : 02/11/2021

Analyte	Instrument	Result Value	Standard Unit	Z-Score
No Outlier				
Legend @ : z score \leq 2.0 - Acceptable ! : 2.0 < z score < 3.0 - Warning X : z score \geq 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Result Details For Cycle No 210410 and Sample No 03

Report Date : 02/11/2021

Instrument : Roche cobas c 111

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Glucose	mg/dl	65.20	65.43	-0.18	-0.27
@ Urea	mg/dl	18.66	18.68	-0.56	0.14
@ Creatinine	mg/dl	0.60	0.62	-0.21	-0.83
@ Phosphorous Inorganic	mg/dl	3.70	3.57	1.73	0.29
@ Cholesterol	mg/dl	153.83	151.93	-0.25	0.26
@ HDL	mg/dl	33.70	32.88	-0.32	-0.30
@ LDL	mg/dl	93.66	93.00	-0.62	-0.87

Legend @ : z score \leq 2.0 - Acceptable
 ! : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⌚ : Delayed Result Entry
 * : Not considered for evaluation.

Total Parameters	7
Not Evaluated Parameters	0
Evaluated Parameters	7
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
 PT coordinator & Technical Manager, MHL EQAS
 Unit No. 409-416,
 Commercial Building - 1A,
 Kohinoor Mall, Kiroi Road, Kurla (W),
 Mumbai - 400070

End of Report

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Outlier Details For Cycle No 210410 and Sample No 03

Report Date : 02/11/2021

Analyte	Instrument	Result Value	Standard Unit	Z-Score
No Outlier				
Legend @ : z score \leq 2.0 - Acceptable † : 2.0 < z score < 3.0 - Warning X : z score \geq 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____

MINU CLINICAL LABORATORY (558)

Outlier And Analyte Summary Report

Result Details For Cycle No 210410 and Sample No 04

Report Date : 02/11/2021

Instrument : Roche cobas c 111

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Glucose	mg/dl	61.90	62.26	-0.18	-0.27
@ Urea	mg/dl	20.90	22.23	-0.74	0.14
@ Creatinine	mg/dl	0.60	0.67	-1.41	-0.83
@ Phosphorous Inorganic	mg/dl	4.00	3.80	1.29	0.29
@ Cholesterol	mg/dl	153.84	153.83	-0.24	0.26
@ HDL	mg/dl	32.90	32.12	-0.44	-0.30
@ LDL	mg/dl	94.03	94.87	-1.12	-0.87

Legend @ : z score ≤ 2.0 - Acceptable
 ! : 2.0 < z score < 3.0 - Warning
 X : z score ≥ 3 - Unacceptable
 # : Not Evaluated
 ⌚ : Delayed Result Entry
 * : Not considered for evaluation.

Total Parameters	7
Not Evaluated Parameters	0
Evaluated Parameters	7
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
 PT coordinator & Technical Manager, MHL EQAS
 Unit No. 409-416,
 Commercial Building - 1A,
 Kohinoor Mall, Kiroi Road, Kurla (W),
 Mumbai - 400070

Analyte	Instrument	Result Value	Standard Unit	Z-Score
No Outlier				
Legend @ : z score \leq 2.0 - Acceptable ! : 2.0 < z score < 3.0 - Warning X : z score \geq 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____