



RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

ALL METHOD REPORT

Lab Code: 2719

Cycle - 12/2023

Round No - 10

Date: 31/10/2023

Parameters	Units	No. of Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range (± 2 SD)	Your Value	Z Score
Albumin	g/dL	120	2.9	0.2	0.02	2.5-3.3	2.8	-0.5
Alkaline Phosphatase	U/L	120	314.6	50.3	5.74	213.9-145.3	415	2.0
Bilirubin (Total)	mg/dL	119	5.1	0.6	0.07	3.9-6.2	5.5	0.7
Calcium (Total)	mg/dL	112	12.5	0.7	0.08	11.1-13.9	12.5	0.0
Cholesterol (Total)	mg/dL	120	264.4	12.6	1.44	239.2-289.6	241	-1.9
Creatinine	mg/dL	120	4.2	0.2	0.02	3.7-4.7	3.7	-2.5
Glucose	mg/dL	121	264.8	15.5	1.76	233.9-295.8	255	-0.6
HDL	mg/dL	115	81.5	14.8	1.73	52.0-111.1	43.0	-2.6
Potassium	mEq/L	105	5.7	0.4	0.05	5.0-6.4	4.7	-2.5
Protein (Total)	g/dl	119	4.6	0.3	0.03	4.0-5.2	3.8	-2.7
Sodium	mEq/L	105	156.6	5.2	0.63	146.2-167.1	143	-2.6
SGPT/ALT	U/L	121	134.9	12.2	1.39	110.5-159.3	124	-0.9
SGOT/AST	U/L	120	134.0	12.0	1.37	110.0-158.0	137	0.3
Triglyceride	mg/dL	119	251.6	14.8	1.70	222.0-281.1	244	-0.5
Urea	mg/dL	121	115.3	7.9	0.90	99.6-131.0	110	-0.7
Uric Acid	mg/dl	114	9.3	0.6	0.07	8.1-10.4	9.3	0.0
Chloride	mEq/L	101	116.1	4.4	0.55	107.2-124.9	108	-1.8
Phosphorus	mg/dL	84	6.7	0.3	0.04	6.0-7.5	6.3	-1.3
Magnesium	mg/dl	24	4.3	0.4	0.10	3.5-5.1	3.95	-0.9
Iron	ug/dL	77	219.7	17.0	2.42	185.6-253.7	174	-2.7
Amylase	U/L	62	285.8	27.6	4.38	230.7-340.9	243	-1.6
CK	U/L	26	462.0	79.4	19.46	303.2-620.7	.	-

Interpretation of Z Score :

Z Score Value(+/-)	$[Z] \leq 2.0$	$2.0 < [Z] < 3.0$	$[Z] \geq 3.0$
Interpretation	Satisfactory Performance No signal	Questionable Warning Signal	Unsatisfactory Performance action Signal

Legends	(*) Excluded From Group Mean	{ } Not Reported	(#) Late Result Submission	(\$) Reported in other Unit
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Chief Coordinator

Dr. Sanjay Mehrotra

Programme Director

Dr. Bandana Mehrotra

Checked By:

Prepared by: R

Page 1 of 8

Doc. No.: ASS / FR / 03A / R 01 / Dt.: 05.01.2022



Address: B-171, Nirala Nagar, Lucknow-226020. Ph.: 4034100-130 (30 Lines), 4077180, 2788444 Fax : (0522)2788555
Email: rmlresearchfoundation@gmail.com Website: www.rmlpathology.com

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RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

METHOD WISE REPORT

Lab Code: 2719

Cycle - 12/2023
Round No - 10

Date: 31/10/2023

Note: @ parameter is not the part of this Method Group

Parameters	Units	Method Group	No.of. Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range (± 2 SD)	Your Value	Z Score
Albumin	g/dL	Bromocresol Green (BCG)	84	3.0	0.2	0.03	2.6-3.4	2.8	-1.0
Alkaline Phosphatase	U/L	PNPP	85	313.4	48.6	6.59	216.3-410.5	415	2.1
Bilirubin Total	mg/dL	Diazonium Ion	75	5.0	0.5	0.07	4.0-6.1	5.5	1.0
Calcium(Total)	mg/dL	Arsenazo iii	64	12.4	0.7	0.11	10.9-13.9	12.5	0.1
Cholesterol (Total)	mg/dL	Cholesterol Oxidase,esterase, peroxidase	90	263.9	12.3	1.62	239.2-288.6	241	-1.9
Creatinine	mg/dL	Alkaline picrate	74	4.2	0.2	0.03	3.8-4.6	3.7	-2.5
Glucose	mg/dL	Glucose oxidase,hydrogen peroxide(Trinder)	61	267.7	17.3	2.77	233.0-302.4	255.0	-0.7
HDL @	mg/dL	Direct measure	50	88.8	4.6	0.81	79.6-98.0	-	-
Potassium	mEq/L	ISE Direct	43	5.7	0.3	0.06	5.1-6.3	*4.7	-3.3
Protein (Total)	g/dl	Biuret, reagent blank, end point	61	4.6	0.3	0.05	4.1-5.2	3.8	-2.7
Sodium @	mEq/L	ISE Direct	43	155.6	4.0	0.76	147.5-163.6	-	-
SGPT/ALT	U/L	UV without P5P	65	135.6	11.2	1.74	113.3-157.9	124	-1.0
SGOT/AST @	U/L	UV without P5P	63	133.7	11.1	1.75	111.6-155.8	-	-
Triglyceride	mg/dL	Enzymatic method	61	252.5	15.7	2.51	221.1-283.9	244	-0.5
Urea	mg/dL	Urease	76	115.3	6.8	0.98	101.7-129.0	110	-0.8
Uric Acid @	mg/dl	Uricase	55	9.2	0.6	0.10	8.0-10.4	-	-
Chloride	mEq/L	ISE Indirect	44	115.7	3.7	0.70	108.4-123.0	108.0	-2.1
Phosphorus	mg/dL	Phosphomolybdate method	63	6.7	0.3	0.05	6.0-7.4	6.3	-1.3
Magnesium	mg/dl	Uricase Colorimetic	12	4.3	0.6	0.22	3.2-5.4	3.95	-0.6
Iron @	ug/dL	Ferene	35	220.1	20.8	4.39	178.6-261.7	-	-
Amylase	U/L	Uricase Colorimetic	33	288.6	32.9	7.16	222.8-354.5	243	-1.4
CK @	U/L	NAC Activated	14	468.1	82.8	27.66	302.4-633.8	-	-

Interpretation of Z Score :

Z Score Value(+/-)	$ Z \leq 2.0$	$2.0 < Z < 3.0$	$ Z \geq 3.0$
Interpretation	Satisfactory Performance No signal	Questionable Warning Signal	Unsatisfactory Performance action Signal

Legends	(*) Excluded From Group Mean	{,} Not Reported	(#)Late Result Submission	(\$)Reported in other Unit
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Chief Coordinator

Programme Director

Dr.Sanjay Mehrotra

Dr.Bandana Mehrotra

Checked By:

Prepared by:

Page 2 of 7

Doc. No.: ASS/FR/03A/R01/Dt.: 05.01/2022



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RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

METHOD WISE REPORT PART-02

Lab Code: 2719

Cycle - 12/2023

Round No - 10

Date: 31/10/2023

Note: @ parameter is not the part of this Method Group

Parameters	Units	Method Group	No.of. Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range (± 2 SD)	Your Value	Z Score
Glucose @	mg/dL	Hexokinase	29	264.8	7.5	1.74	249.9-279.8	-	-
Potassium @	mEq/L	ISE Indirect	28	5.9	0.2	0.05	5.6-6.3	-	-
Protein (Total) @	g/dl	Biuret, No Serum Blank End Point	28	4.5	0.2	0.05	4.2-4.8	-	-
Sodium @	mEq/L	ISE Indirect	27	159.4	3.6	0.87	152.2-166.6	-	-
SGPT/ALT @	U/L	UV with PSP	24	134.5	9.6	2.45	115.3-153.6	-	-
SGOT/AST @	U/L	UV with PSP	24	154.6	19.9	5.08	114.8-194.5	-	-
Triglyceride @	mg/dL	Enzymatic, End Point	29	250.2	6.7	1.56	236.9-263.6	-	-
Uric Acid	mg/dl	Enzymatic	30	9.5	0.6	0.14	8.3-10.6	9.3	-0.3
Chloride @	mEq/L	ISE Direct	24	116.0	4.4	1.12	107.2-124.9	-	-
Iron	μ g/dL	Forzine-NO Deproteinization	26	218.9	13.3	3.26	192.3-245.5	*174	-3.4

Interpretation of Z Score :

Z Score Value(+/-)	$[Z] \leq 2.0$	$2.0 < [Z] < 3.0$	$[Z] \geq 3.0$
Interpretation	Satisfactory Performance No signal	Questionable Warning Signal	Unsatisfactory Performance action Signal

Legends	(*) Excluded From Group Mean	{ } Not Reported	(#) Late Result Submission	(\$) Reported in other Unit
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Programme Director

Dr.Bandana Mehrotra

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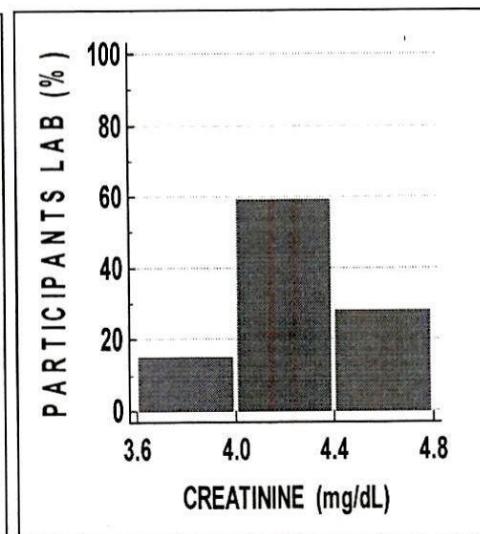
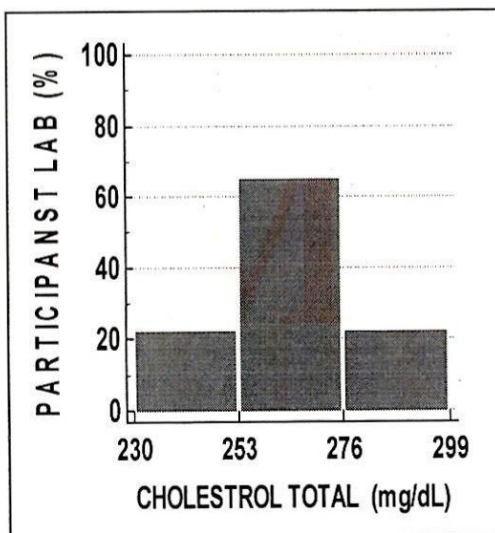
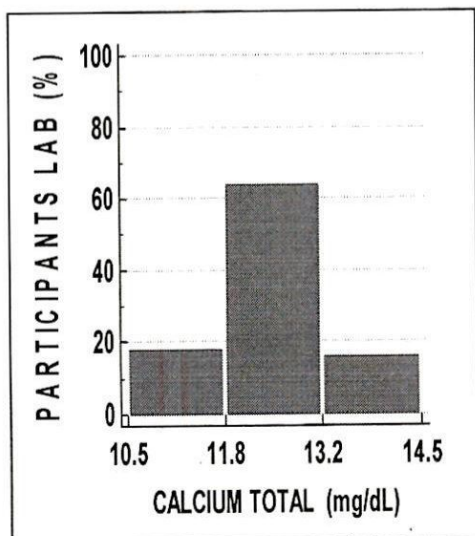
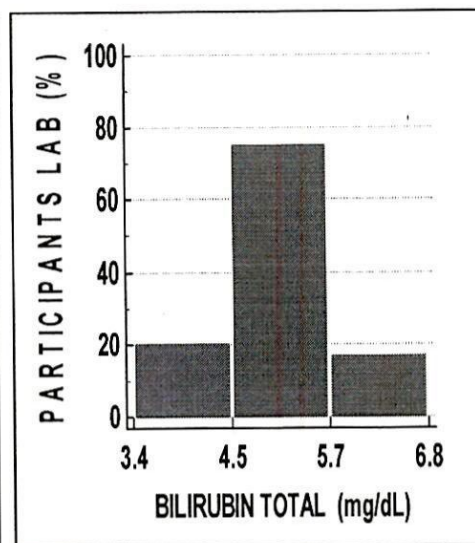
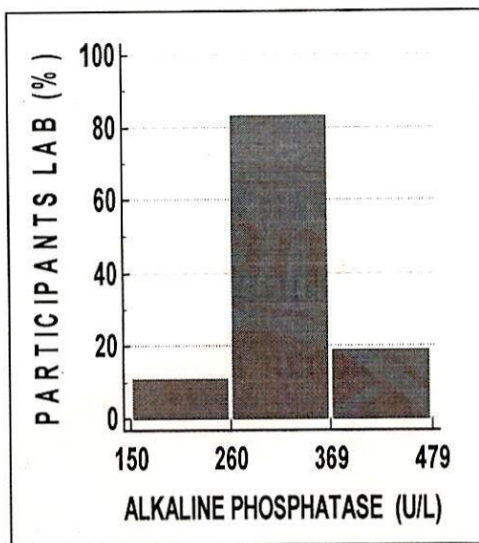
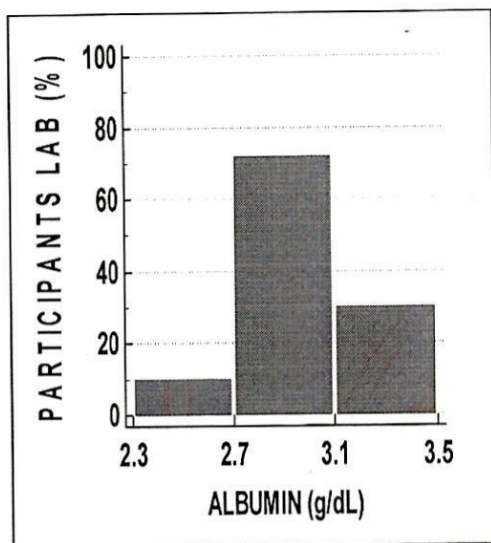


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 12/2023
Round-10

Date: 31/10/2023

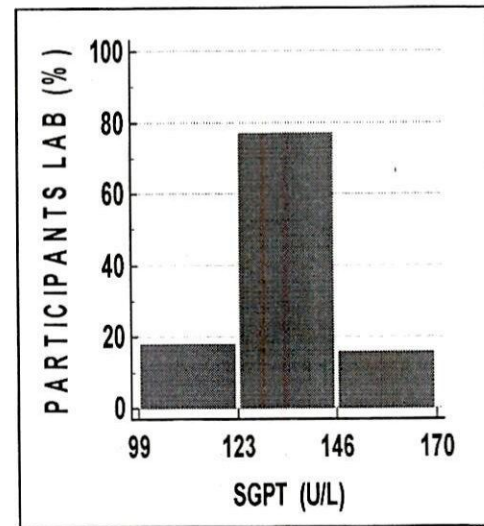
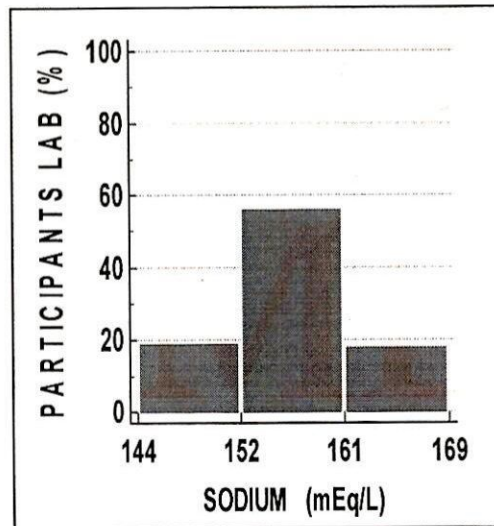
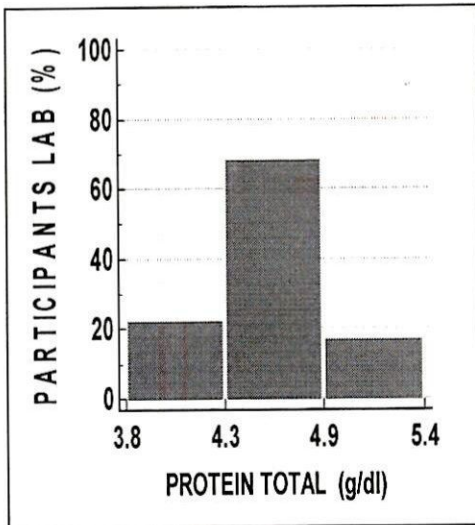
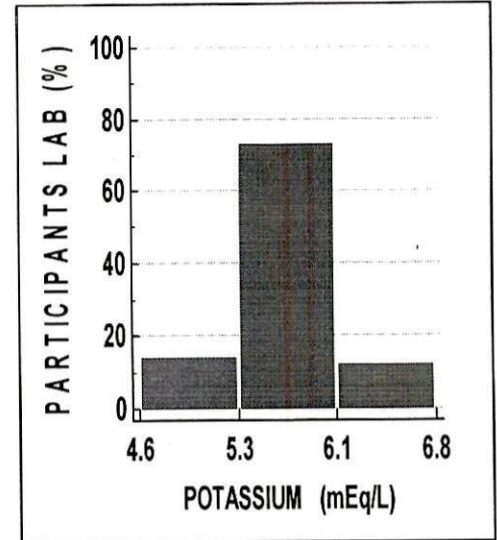
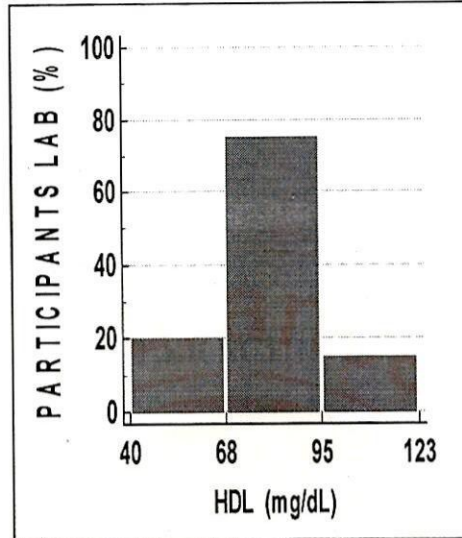
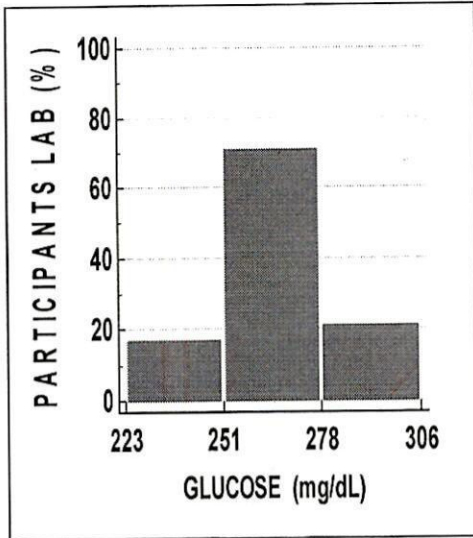




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Round-10

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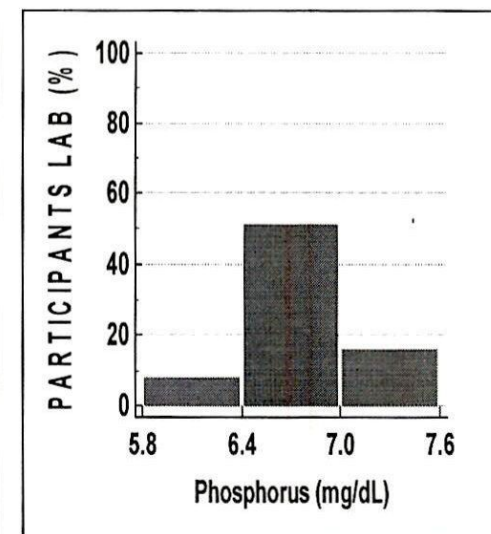
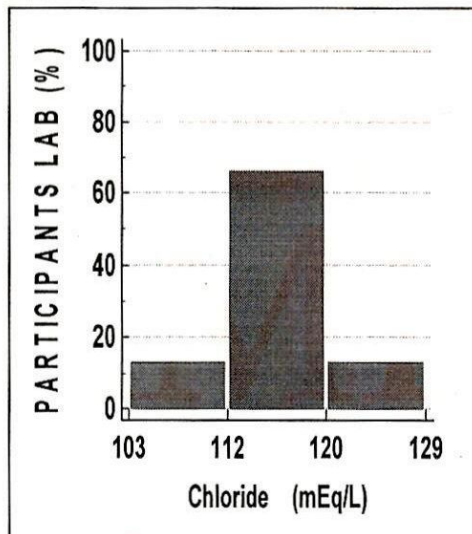
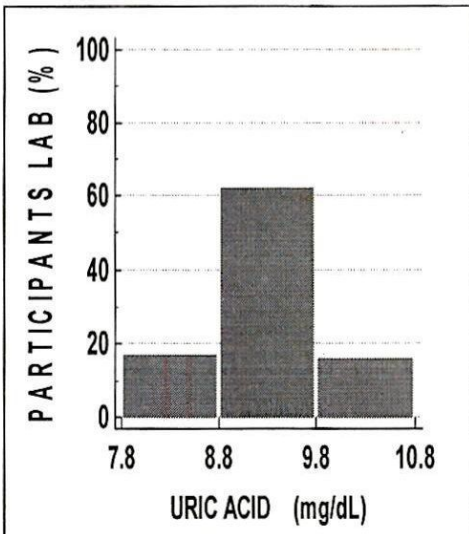
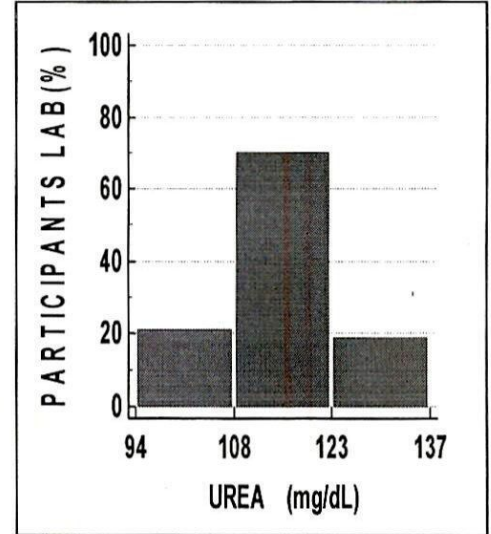
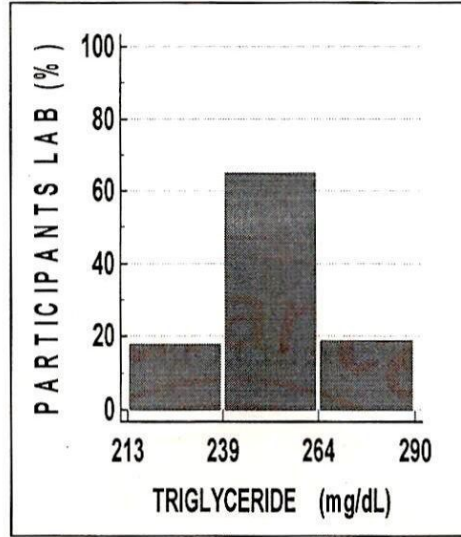
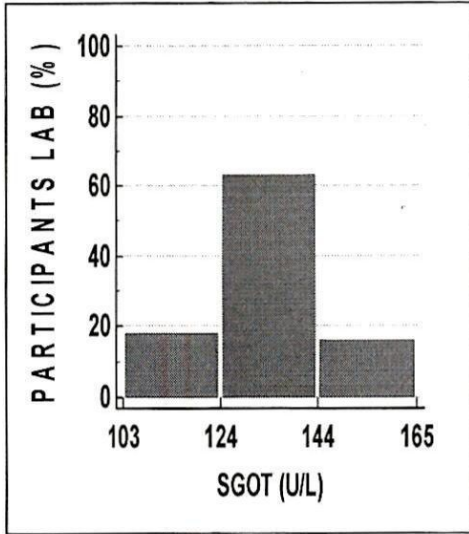




GRAPHICAL REPORT

Cycle - 12/2023
Round-10

Date: 31/10/2023

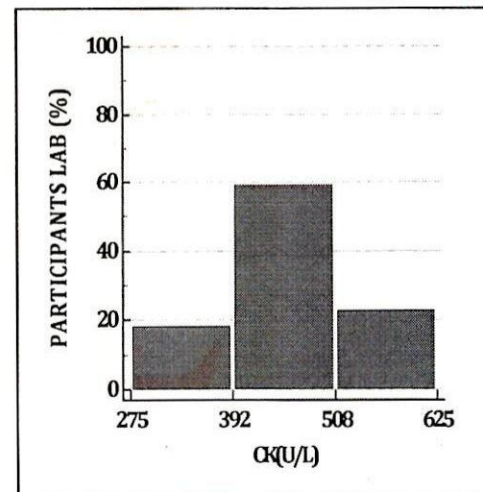
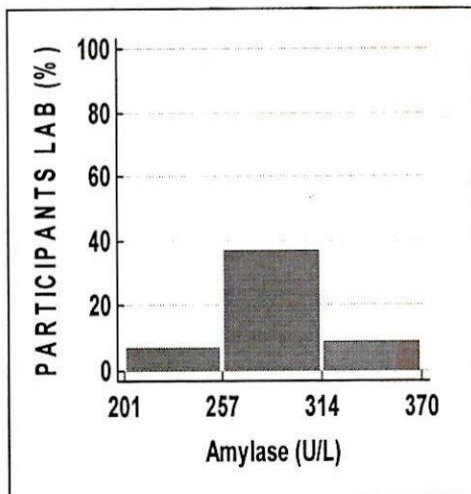
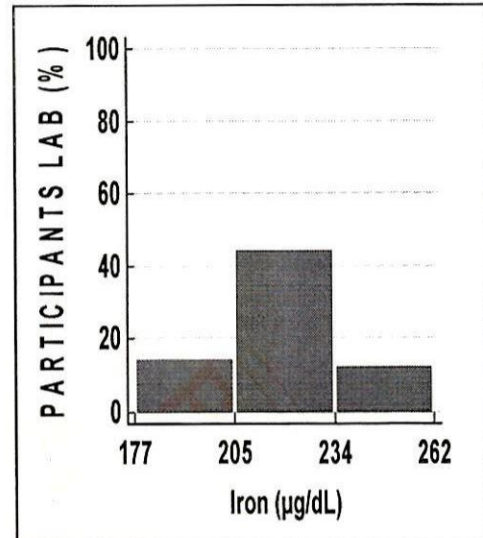
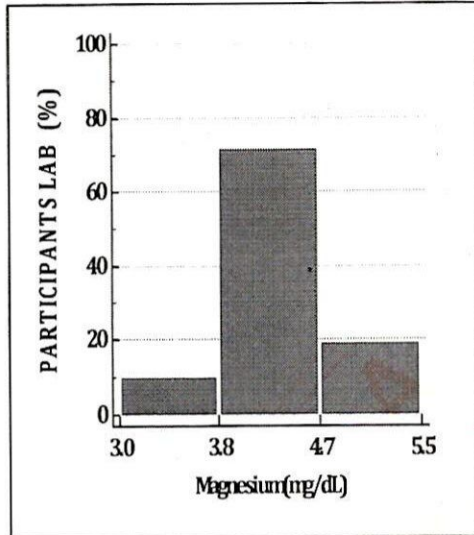


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 12/2023
Round-10

Date: 31/10/2023





RML- Quality Assurance Program (RML-QAP)



Extended Biochemistry -02

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 12/2023

Round No - 10

Date: 31/10/2023

Note:- This report is only for information about the participants performance in the particular round .

Parameters	Total No. of Participants	No. of Responses	No of Participant Excluded from Robust Group Mean	No. of Participants Z Score b/w 0.0 - 2	No. of Participants Z Score b/w 2.1 - 2.9	No. of Participants Z Score >3
Albumin	158	120	8	111	1	8
Alkaline Phosphatase	158	120	8	106	6	8
Bilirubin Total	158	119	6	110	3	6
Calcium(Total)	158	112	12	99	1	12
Cholesterol (Total)	158	120	10	105	5	10
Creatinine	158	120	19	95	6	19
Glucose	158	121	11	106	4	11
HDL	158	115	3	103	9	3
Potassium	158	105	3	98	4	3
Protein (Total)	158	119	10	104	5	10
Sodium	158	105	7	90	8	7
SGPT/ALT	158	121	10	110	1	10
SGOT/AST	158	120	18	93	9	18
Triglyceride	158	119	16	94	9	16
Urea	158	121	11	103	7	11
Uric Acid	158	114	14	90	10	14
Chloride mEq/L	158	101	10	85	6	10
Phosphorus mg/dL	158	84	10	69	5	10
Magnesium mg/dl	158	24	5	19	0	5
Iron µg/dL	158	77	5	68	4	5
Amylase U/L	158	62	9	51	2	9
CK U/L	158	26	3	22	1	3

End of Report

Page 8 of 8



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