



PC 1001

RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

ALL METHOD REPORT

Cycle - 12/2023

Round No - 07

Date: 31/07/2023

Lab Code: 2734

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	114	4.2	0.2	0.03	3.7 - 4.6	4.1	-0.2
Alkaline Phosphatase	U/L	112	178.2	28.8	3.40	120.6 - 235.7	159	-0.7
Bilirubin (Total)	mg/dL	114	1.5	0.2	0.02	1.1 - 1.8	1.3	-0.8
Calcium (Total)	mg/dL	106	8.8	0.4	0.05	8.0 - 9.5	8.5	-0.6
Cholesterol (Total)	mg/dL	114	149.2	7.0	0.82	135.2 - 163.2	142	-1.0
Creatinine	mg/dL	114	1.5	0.1	0.02	1.2 - 1.8	1.6	0.8
Glucose	mg/dL	114	100.6	6.0	0.70	88.7 - 112.5	94	-1.1
HDL	mg/dL	106	51.1	4.4	0.53	42.4 - 59.8	50.0	-0.2
Potassium	mEq/L	99	4.1	0.1	0.01	3.8 - 4.3	4.2	1.4
Protein (Total)	g/dl	110	5.8	0.3	0.03	5.2 - 6.4	5.7	-0.3
Sodium	mEq/L	100	139.8	3.6	0.45	132.6 - 147.0	144	1.2
SGPT/ALT	U/L	114	30.9	4.1	0.48	22.7 - 39.1	35	1.0
SGOT/AST	U/L	113	30.2	2.7	0.31	24.9 - 35.6	32	0.7
Triglyceride	mg/dL	113	97.6	7.4	0.87	82.7 - 112.5	91	-0.9
Urea	mg/dL	114	43.0	3.0	0.35	37.1 - 48.9	44	0.3
Uric Acid	mg/dl	112	5.9	0.5	0.05	5.0 - 6.8	5.7	-0.5
Chloride	mEq/L	95	99.5	4.0	0.52	91.5 - 107.6	98	-0.4
Phosphorus	mg/dL	90	4.5	0.3	0.04	4.0 - 5.1	4.5	0.0
Magnesium	mg/dl	29	2.1	0.2	0.06	1.6 - 2.6	.	-
Iron	μ g/dL	78	111.8	5.5	0.78	100.8 - 122.9	125	2.4
Amylase	U/L	63	81.1	9.8	1.54	61.6 - 100.7	.	-
CK	U/L	25	171.3	28.2	7.05	114.9 - 227.7	.	-

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

Checked By:

Prepared by: N.N

Programme Director

Dr. Bandana Mehrotra

Page 1 of 7

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



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RML- Quality Assurance Program (RML-QAP)



PC 1001

BIO-CHEMISTRY-02

METHOD WISE REPORT

Cycle - 12/2023
Round No - 07

Date: 31/07/2023

Lab Code: 2734

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)	82	4.2	0.2	0.03	3.8 - 4.6	4.1	-0.3
Alkaline Phosphatase	U/L	PNPP	82	170.1	22.3	3.08	125.5 - 214.7	159	-0.5
Bilirubin Total	mg/dL	Diazonium Ion	80	1.4	0.2	0.02	1.1 - 1.8	1.3	-0.8
Calcium(Total) @	mg/dL	Arsenazo iii	63	8.7	0.5	0.07	7.8 - 9.7	-	-
Cholesterol (Total)	mg/dL	Cholesterol Oxidase,esterase, peroxidase	88	148.3	7.5	1.00	133.2 - 163.3	142	-0.8
Creatinine	mg/dL	Alkaline picrate	72	1.5	0.1	0.02	1.2 - 1.7	1.6	0.9
Glucose @	mg/dL	Glucose oxidase,hydrogen peroxide(Trinder)	58	101.8	6.8	1.12	88.2 - 115.4	-	-
HDL	mg/dL	Direct measure	53	51.8	4.9	0.84	42.0 - 61.5	50.0	-0.4
Potassium @	mEq/L	ISE Direct	48	4.0	0.1	0.02	3.7 - 4.3	-	-
Protein (Total) @	g/dl	Biuret, reagent blank, end point	57	5.8	0.3	0.06	5.1 - 6.5	-	-
Sodium @	mEq/L	ISE Direct	48	139.3	4.2	0.76	130.9 - 147.7	-	-
SGPT/ALT @	U/L	UV without P5P	57	30.5	3.5	0.59	23.4 - 37.5	-	-
SGOT/AST @	U/L	UV without P5P	55	30.0	2.6	0.44	24.8 - 35.3	-	-
Triglyceride @	mg/dL	Enzymatic method	58	98.3	7.0	1.16	84.2 - 112.3	-	-
Urea	mg/dL	Urease	76	43.0	3.0	0.43	37.1 - 49.0	44	0.3
Uric Acid	mg/dl	Uricase	61	5.9	0.4	0.06	5.1 - 6.6	5.7	-0.4
Chloride	mEq/L	ISE Indirect	48	97.9	4.3	0.78	89.3 - 106.4	98	0.0
Phosphorus	mg/dL	Phosphomolybdate method	69	4.5	0.3	0.04	4.0 - 5.1	4.5	0.0
Magnesium @	mg/dl	Uricase Colorimetic	13	2.1	0.3	0.09	1.6 - 2.7	-	-
Iron @	µg/dL	Ferene	36	111.5	5.8	1.21	99.8 - 123.1	-	-
Amylase	U/L	Uricase Colorimetic	34	82.8	9.4	2.00	64.1 - 101.5	-	-
CK @	U/L	NAC Activated	14	174.5	36.6	12.23	101.3 - 247.8	-	-

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

Dr.Sanjay Mehrotra

Checked By:

Prepared by: N.N

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

Programme Director

Dr.Bandana Mehrotra

Page 2 of 7



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PC 1001

RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

METHOD WISE REPORT PART-02

Cycle - 12/2023
Round No - 07

Date: 31/07/2023

Lab Code: 2734

Note: @ Parameters are not part of Method Group

Parameters	Units	Method Group	No.of. Parti- cipants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range (± 2 SD)	Your Value	Z Score
Glucose	mg/dL	Hexokinase	29	98.4	2.2	0.52	93.9 - 102.8	94	-2.0
Potassium	mEq/L	ISE Indirect	29	4.1	0.1	0.03	3.9 - 4.3	4.2	0.8
Protein (Total)	g/dl	Biuret, No Serum Blank End Point	28	5.8	0.2	0.05	5.4 - 6.2	5.7	-0.5
Sodium	mEq/L	ISE Indirect	28	140.4	3.1	0.73	134.2 - 146.6	144	1.2
SGPT/ALT	U/L	UV with P5P	25	32.4	2.9	0.73	26.6 - 38.3	35	0.9
SGOT/AST	U/L	UV with P5P	25	34.1	5.5	1.37	23.2 - 45.1	32	-0.4
Triglyceride	mg/dL	Enzymatic, End Point	30	96.2	7.9	1.81	80.4 - 112.1	91	-0.7
Uric Acid @	mg/dl	Enzymatic	23	6.1	0.3	0.08	5.5 - 6.7	-	-
Chloride @	mEq/L	ISE Direct	26	101.6	4.2	1.03	93.2 - 110.0	-	-
Iron	ug/dL	Forzine-NO Deproteinization	27	113.0	3.5	0.84	106.0 - 120.0	*125	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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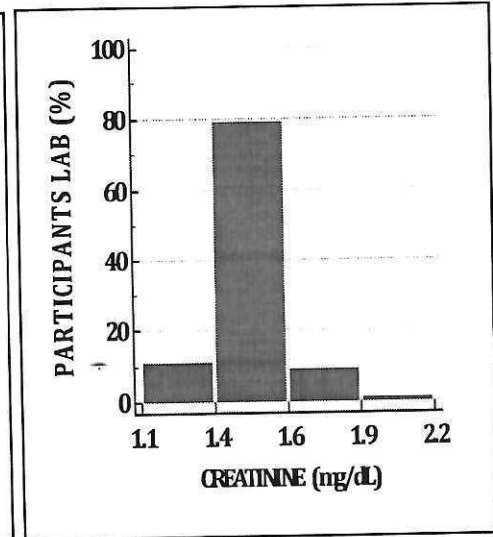
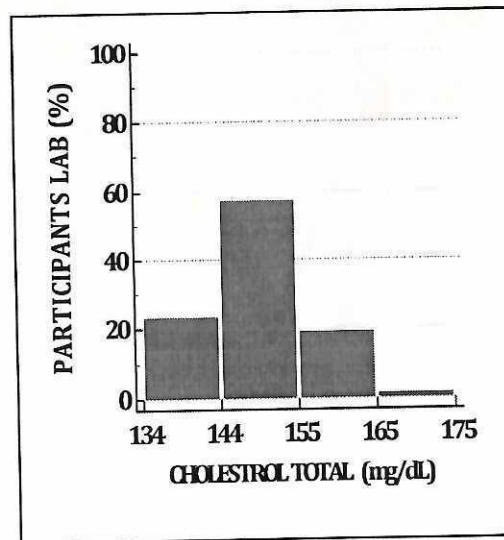
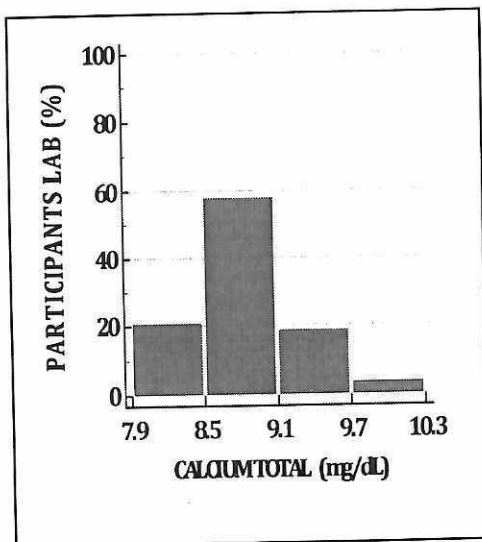
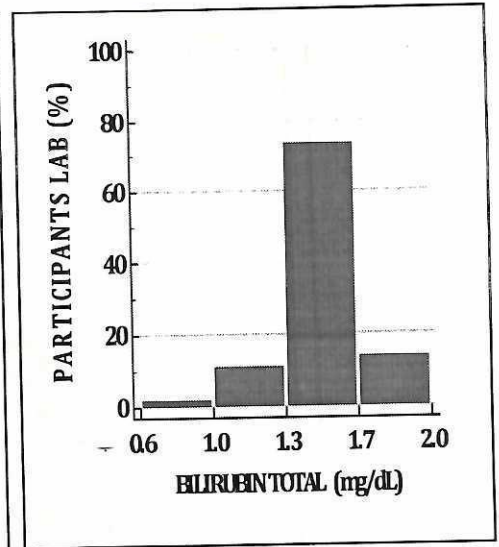
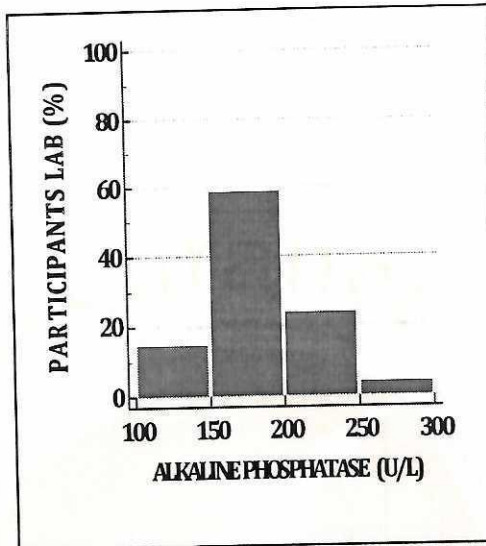
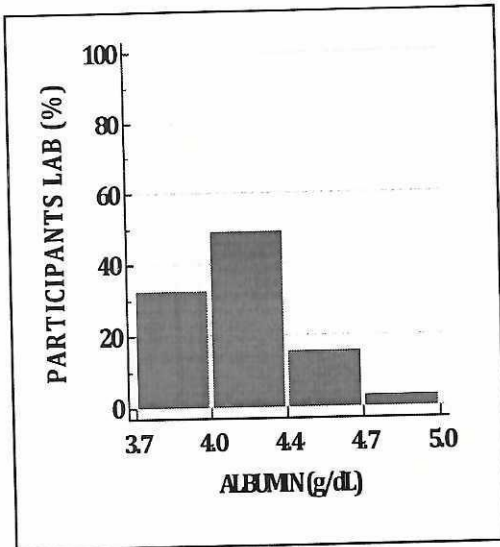
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GRAPHICAL REPORT

Cycle - 12/2023
Round-7

Date: 31/07/2023

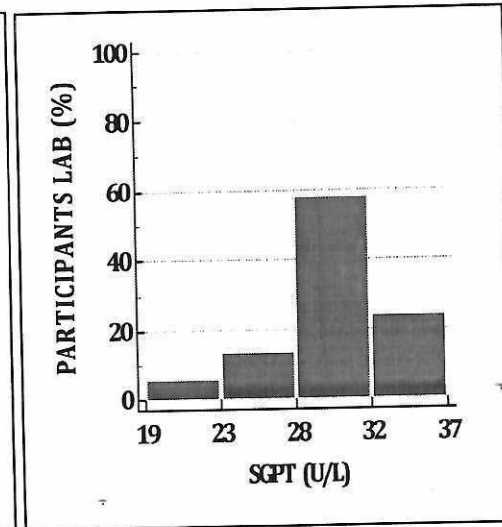
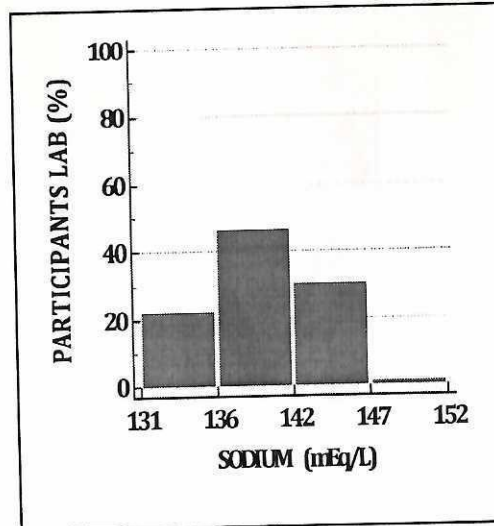
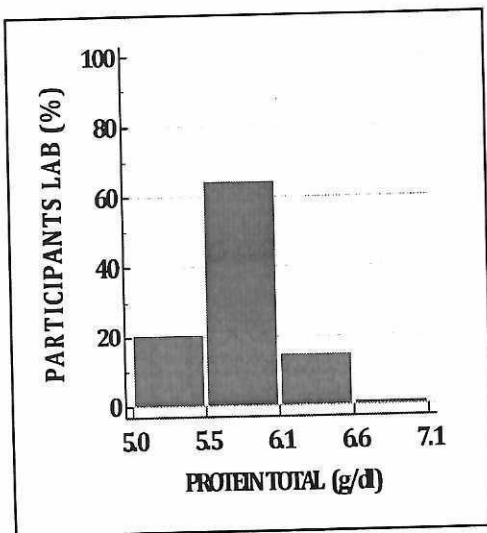
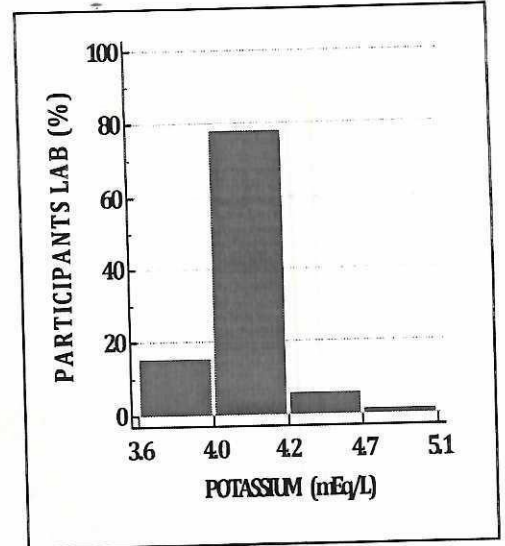
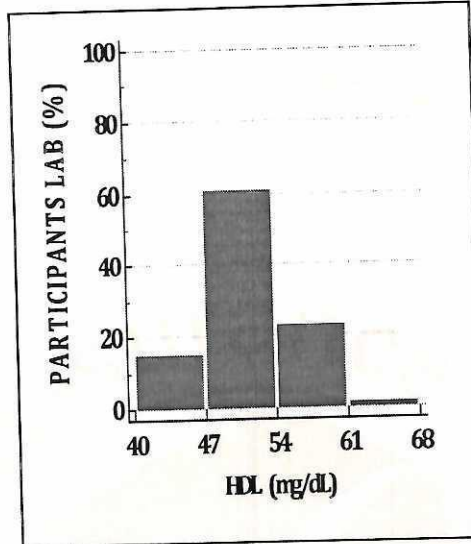
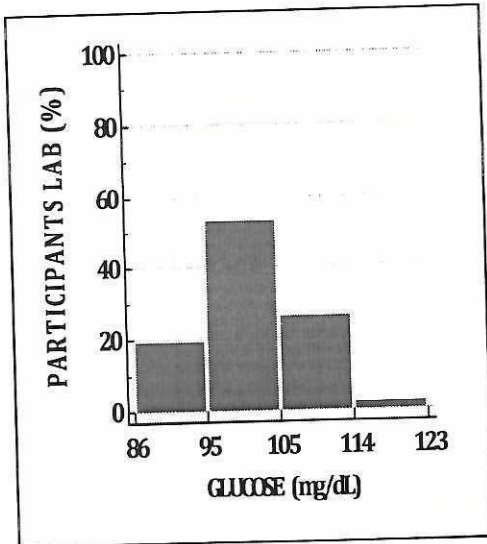




GRAPHICAL REPORT

Cycle - 12/2023
Round-7

Date: 31/07/2023



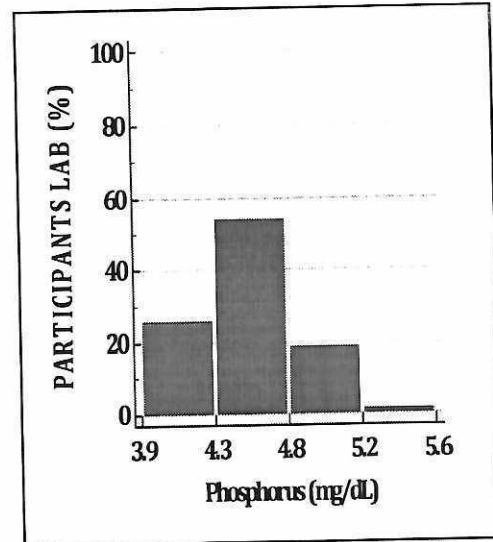
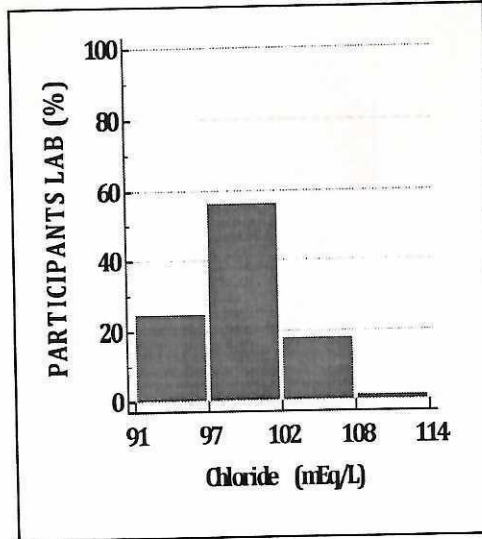
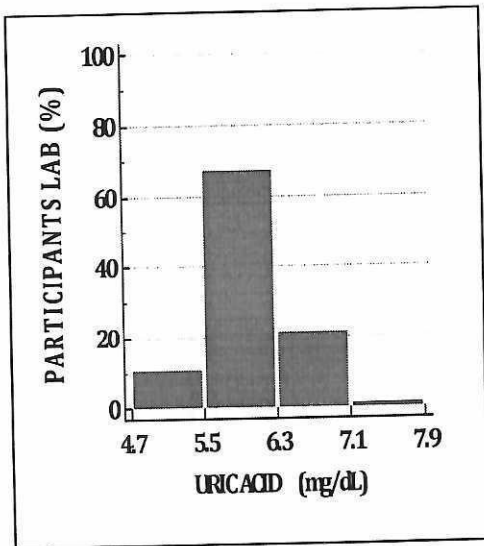
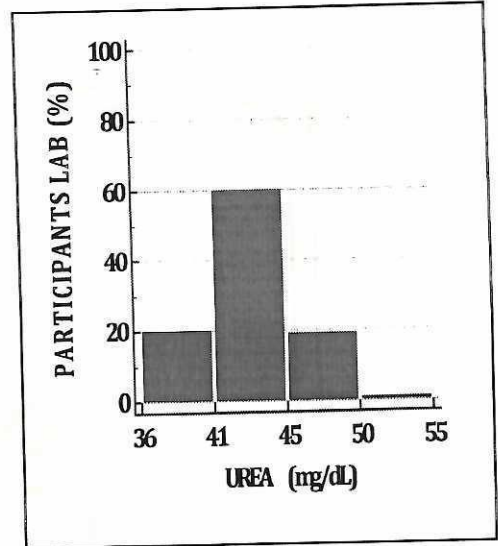
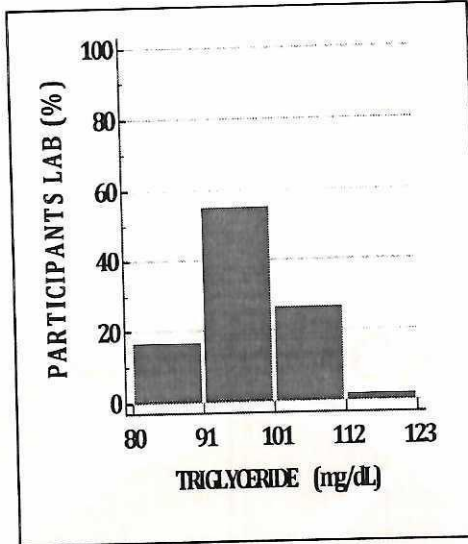
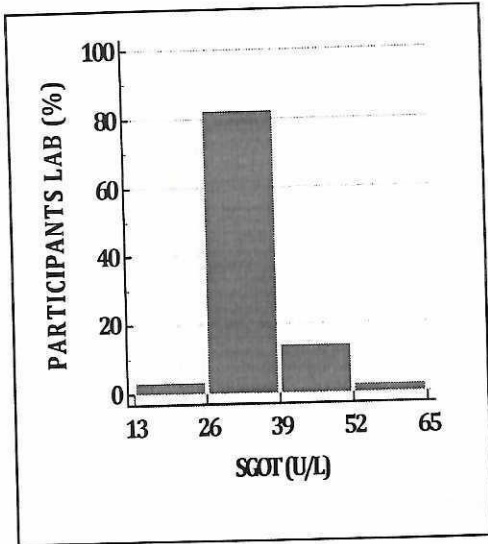


PC 1001

GRAPHICAL REPORT

Cycle - 12/2023
Round-7

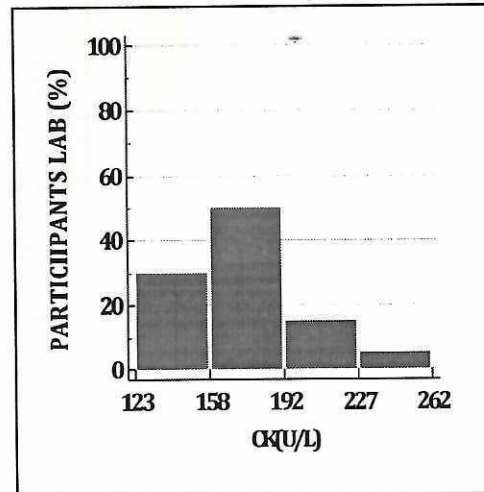
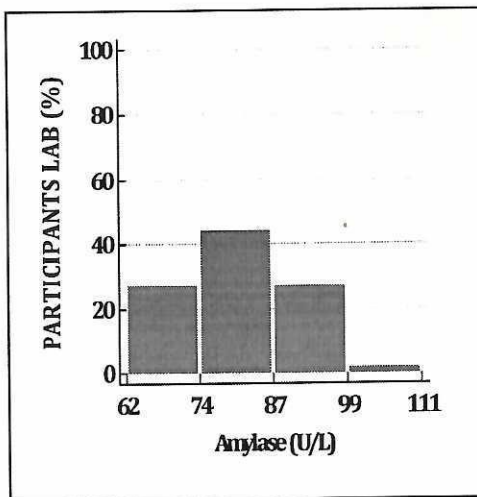
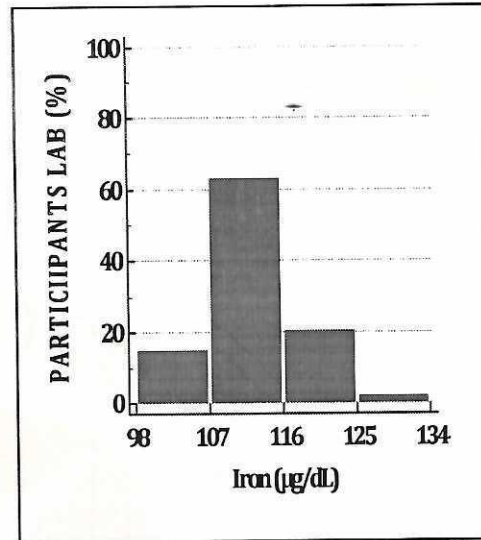
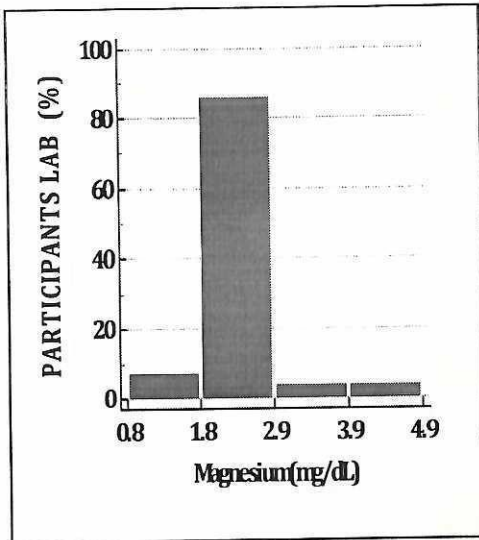
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GRAPHICAL REPORT

Cycle - 12/2023
Round-7

Date: 31/07/2023





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RML- Quality Assurance Program (RML-QAP)



Extended Biochemistry -02

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 12/2023
Round No - 07

Date: 31/07/2023

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	153	114	12	99	3	12
Alkaline Phosphatase	153	112	5	102	5	5
Bilirubin Total	153	114	5	105	4	5
Calcium(Total)	153	106	10	86	10	10
Cholesterol (Total)	153	114	16	85	13	16
Creatinine	153	114	7	103	4	7
Glucose	153	114	9	101	4	9
HDL	153	106	15	84	7	15
Potassium	153	99	15	79	5	15
Protein (Total)	153	110	7	96	7	7
Sodium	153	100	5	92	3	5
SGPT/ALT	153	114	6	102	6	6
SGOT/AST	153	113	18	89	6	18
Triglyceride	153	113	9	99	5	9
Urea	153	114	9	103	2	9
Uric Acid	153	112	6	98	8	6
Chloride mEq/L	153	95	3	86	6	3
Phosphorus mg/dL	153	90	5	83	2	5
Magnesium mg/dl	153	29	3	25	1	3
Iron µg/dL	153	78	20	52	6	20
Amylase U/L	153	63	4	59	0	4
CK U/L	153	25	4	20	1	4

End of Report

Page 7 of 7

Doc. No.: ASS / FR / 01 / R 00 / Dt.: 01.07.2012



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