



RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

ALL METHOD REPORT

Lab Code: 2543

Cycle - 12/2023

Round No - 05

Date: 31/05/2023

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	108	4.2	0.2	0.02	3.9-4.6	4.1	-0.7
Alkaline Phosphatase	U/L	107	174.9	26.8	3.24	121.3-228.5	131	-1.6
Bilirubin (Total)	mg/dL	109	1.5	0.2	0.03	1.0-1.9	1.2	-1.2
Calcium (Total)	mg/dL	99	8.9	0.6	0.07	7.8-10.0	8.6	-0.5
Cholesterol (Total)	mg/dL	108	149.1	9.5	1.14	130.2-168.1	159	1.0
Creatinine	mg/dL	109	1.5	0.1	0.02	1.2-1.8	1.6	0.7
Glucose	mg/dL	107	101.5	6.8	0.82	87.9-115.2	102	0.1
HDL	mg/dL	102	47.7	7.5	0.93	32.7-62.7	53.7	0.8
Potassium	mEq/L	96	4.0	0.2	0.02	3.7-4.3	4.2	1.1
Protein (Total)	g/dl	107	5.8	0.3	0.04	5.1-6.5	6.1	0.9
Sodium	mEq/L	96	140.0	3.2	0.40	133.7-146.4	144	1.2
SGPT/ALT	U/L	108	31.4	2.9	0.34	25.7-37.1	29	-0.8
SGOT/AST	U/L	107	30.3	2.3	0.28	25.7-35.0	29	-0.6
Triglyceride	mg/dL	107	99.6	9.6	1.15	80.5-118.7	95	-0.5
Urea	mg/dL	108	42.7	3.4	0.41	35.9-49.6	49	1.8
Uric Acid	mg/dl	105	5.9	0.5	0.06	4.8-6.9	6.2	0.6
Chloride	mEq/L	91	100.0	3.5	0.46	93.0-107.0	101	0.3
Phosphorus	mg/dL	85	4.6	0.3	0.04	4.0-5.2	4.2	-1.3
Magnesium	mg/dl	29	2.1	0.2	0.05	1.7-2.5	.	-
Iron	µg/dL	73	114.2	13.5	1.97	87.2-141.1	122	0.6
Amylase	U/L	63	83.0	9.6	1.51	63.8-102.2	.	-
CK	U/L	24	180.5	48.7	12.43	83.1-278.0	.	-

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: S.S

Programme Director

Dr. Bandana Mehrotra

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PC 1001

RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

METHOD WISE REPORT

Lab Code: 2543

Cycle - 12/2023
Round No - 05

Date: 31/05/2023

Note: @ parameter is not the part of this 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
Albumin	g/dL	Bromocresal Green (BCG)	73	4.2	0.2	0.02	3.9-4.6	4.1	-0.8
Alkaline Phosphatase	U/L	PNPP	74	167.9	21.6	3.13	124.8-211.0	131	-1.7
Bilirubin Total	mg/dL	Diazonium Ion	73	1.5	0.2	0.02	1.1-1.8	1.2	-1.5
Calcium(Total)	mg/dL	Arsenazo iii	52	8.8	0.6	0.10	7.7-9.9	8.6	-0.4
Cholesterol (Total)	mg/dL	Cholestrol Oxidase,esterase, peroxidase	78	149	10	1.34	129.7-167.7	159	1.1
Creatinine	mg/dL	Alkaline picrate	65	1.5	0.1	0.02	1.3-1.7	1.6	1.0
Glucose @	mg/dL	Glucose oxidase,hydrogen peroxide(Trinder)	51	104.2	4.0	0.70	96.1-112.2	-	-
HDL @	mg/dL	Direct measure	52	46.5	7.3	1.26	32.0-61.0	-	-
Potassium @	mEq/L	ISE Direct	46	4.0	0.2	0.03	3.7-4.3	-	-
Protein (Total)	g/dl	Biuret, reagent blank, end point	49	5.7	0.3	0.05	5.1-6.3	6.1	1.3
Sodium @	mEq/L	ISE Direct	46	140	3.1	0.57	133.4-145.7	-	-
SGPT/ALT	U/L	UV without P5P	57	31.2	2.6	0.43	26.0-36.5	29	-0.9
SGOT/AST	U/L	UV without P5P	56	30.7	2.5	0.42	25.7-35.7	29	-0.7
Triglyceride	mg/dL	Enzymatic method	51	98.9	9.0	1.57	81.0-116.8	95	-0.4
Urea	mg/dL	Urease	67	43.0	2.8	0.42	37.5-48.5	49	2.2
Uric Acid	mg/dl	Uricase	62	5.8	0.5	0.09	4.8-6.9	6.2	0.7
Chloride	mEq/L	ISE Indirect	47	98.3	3.0	0.54	92.4-104.2	101	0.9
Phosphorus	mg/dL	Phosphomolybdate method	64	4.6	0.3	0.04	4.0-5.1	4.2	-1.3
Magnesium @	mg/dl	Uricase Colorimetic	10	2.1	0.2	0.08	1.7-2.4	-	-
Iron	µg/dL	Ferene	33	116.5	15.1	3.28	86.4-146.6	122	0.4
Amylase @	U/L	Uricase Colorimetic	31	84.9	8.1	1.83	68.7-101.2	-	-

Interpretation of Z Score :

Z Score Value(+/-)	[Z] ≤ 2.0	2.0 < [Z] < 3.0	[Z] ≥ 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:

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Prepared by: S.S

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RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

METHOD WISE REPORT-PART-02

Lab Code: 2543

Cycle - 12/2023

Round No - 05

Date: 31/05/2023

Note: @ Parameters are not part of 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	28	100.8	3.1	0.73	94.7-106.9	102	0.4
Potassium	mEq/L	ISE Indirect	26	4.1	0.1	0.02	3.8-4.3	4.2	1.0
Protein (Total) @	g/dl	Biuret, No Serum Blank End Point	27	5.8	0.2	0.05	5.4-6.3	-	-
Sodium	mEq/L	ISE Indirect	24	141.4	3.0	0.77	135.4-147.4	144	0.9
SGPT/ALT @	U/L	UV with P5P	23	32.4	5.0	1.30	22.5-42.4	-	-
SGOT/AST @	U/L	UV with P5P	21	31.2	4.3	1.17	22.7-39.8	-	-
Triglyceride @	mg/dL	Enzymatic, End Point	31	101.6	12	2.69	77.6-125.6	-	-
Uric Acid @	mg/dl	Enzymatic	16	5.9	0.5	0.16	4.9-6.9	-	-
Chloride @	mEq/L	ISE Direct	24	101.6	2.6	0.66	96.3-106.9	-	-
Iron @	μ g/dL	Forzine-NO Deproteinization	26	113.6	9.2	2.26	95.3-132.0	-	-

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: SHK

Programme Director

Dr.Bandana Mehrotra

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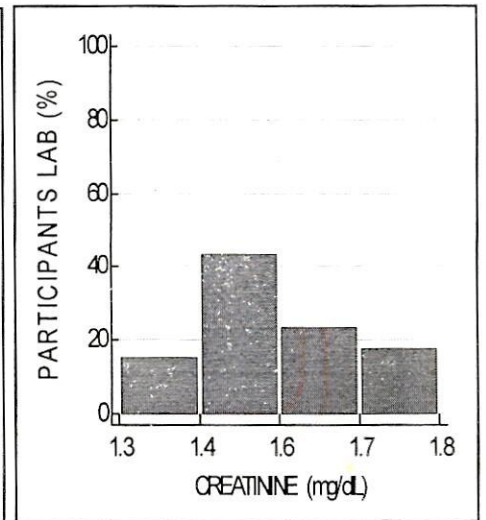
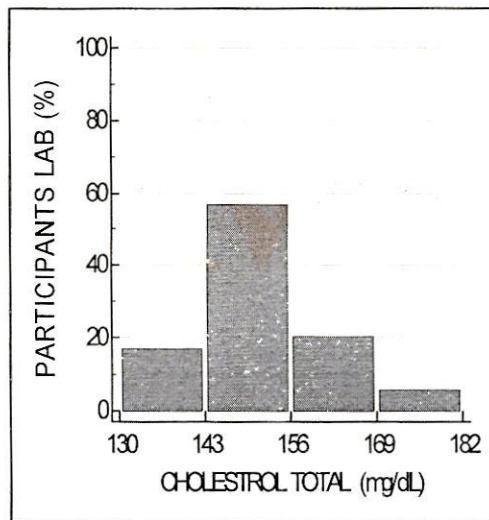
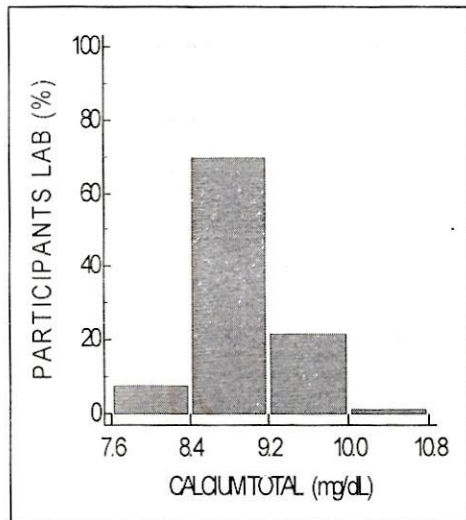
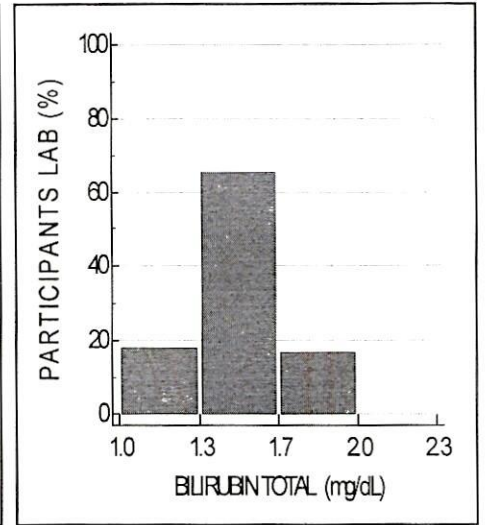
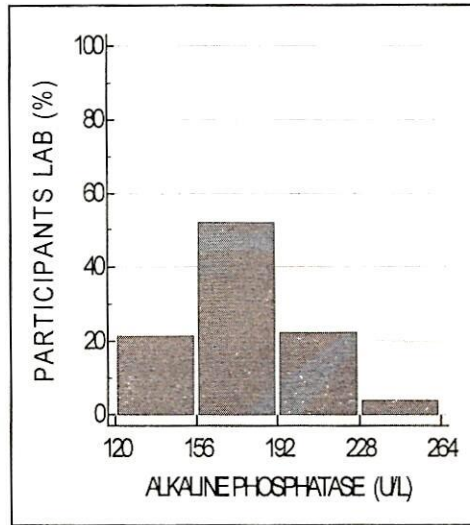
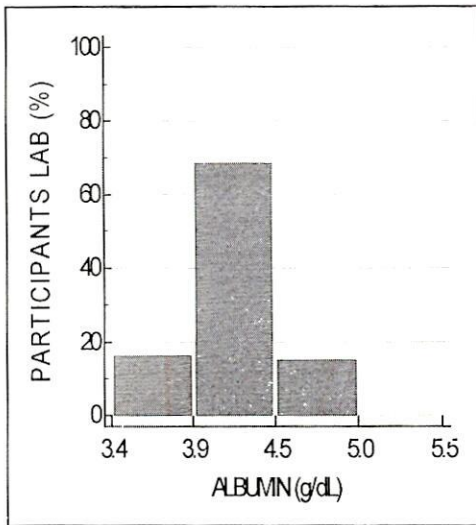


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 12/2023
Round-5

Date: 31/05/2023



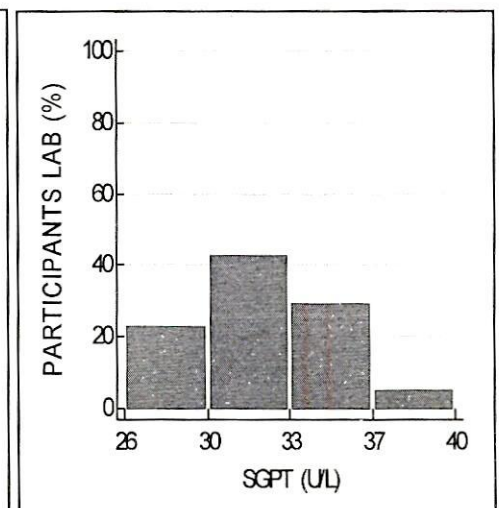
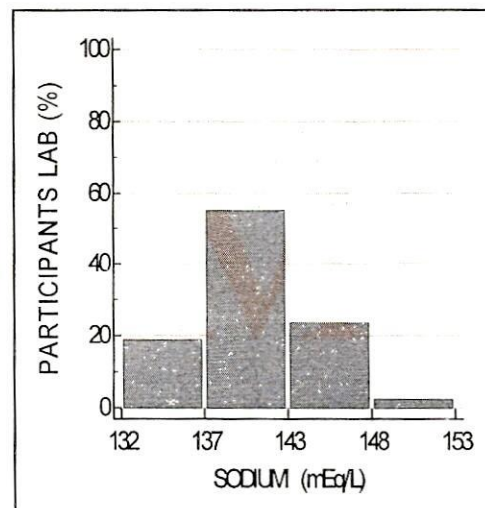
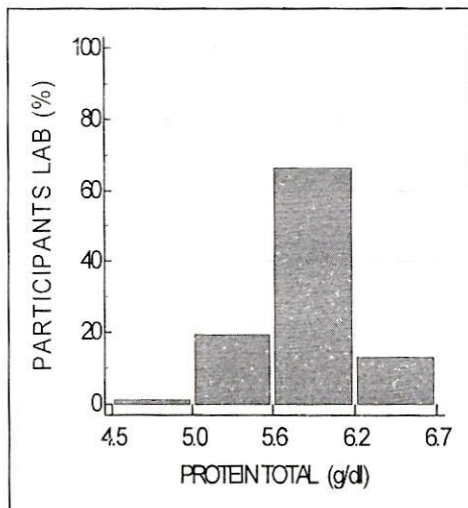
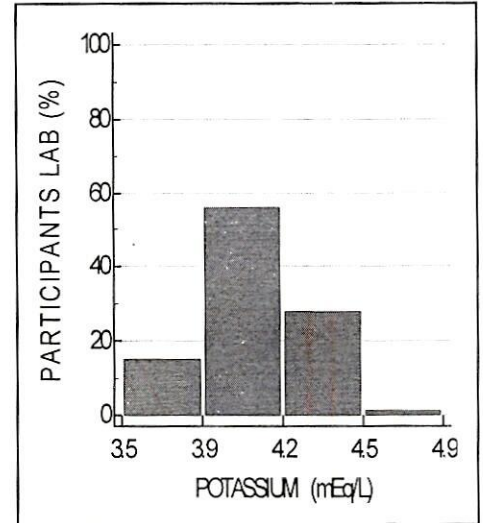
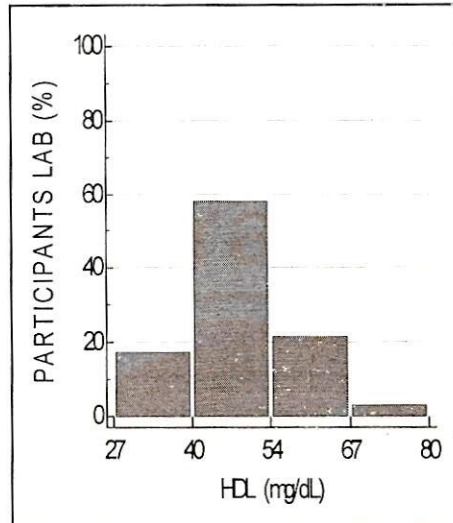
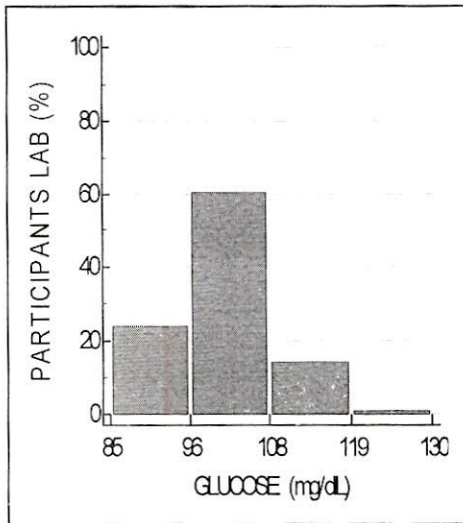


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GRAPHICAL REPORT

Cycle - 12/2023
Round-5

Date: 31/05/2023

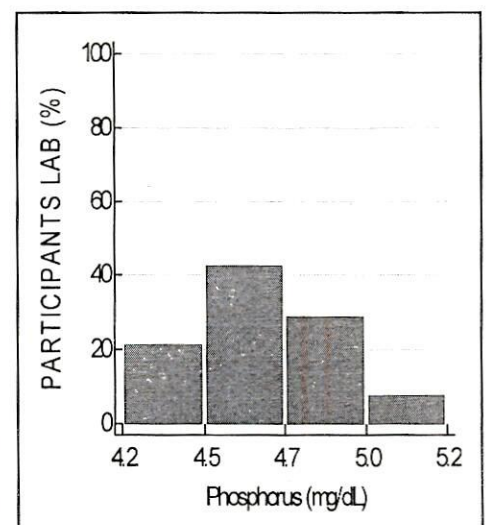
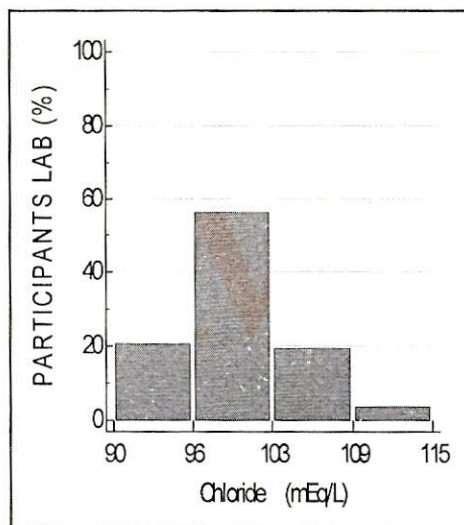
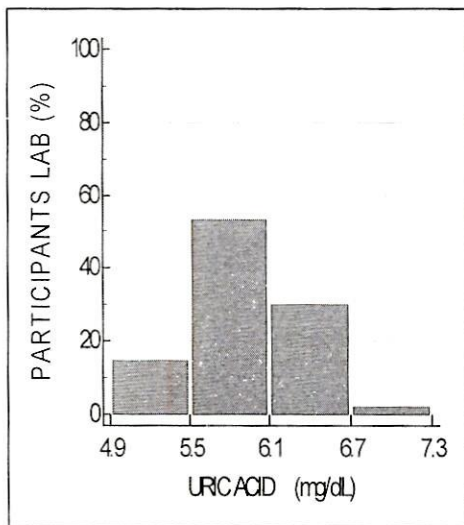
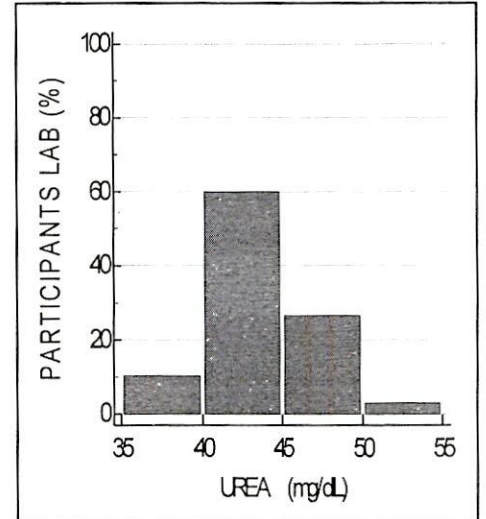
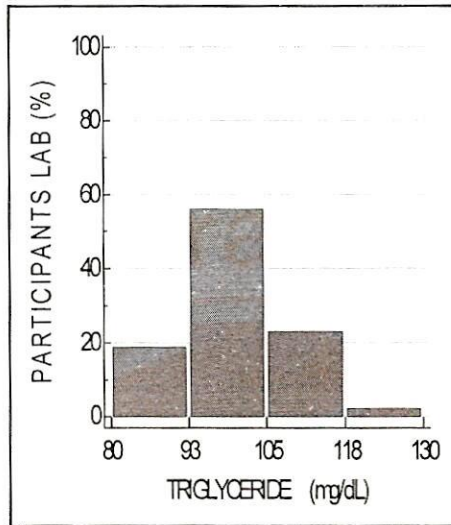
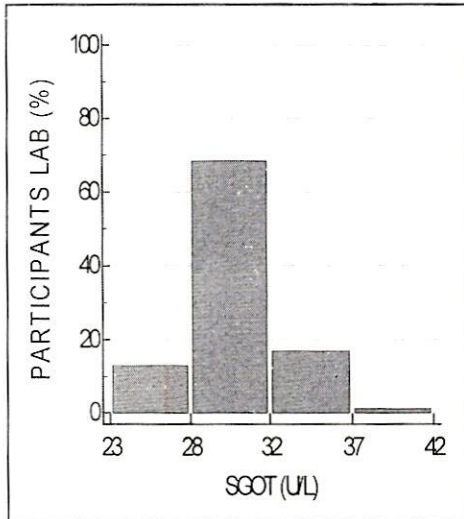


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 12/2023
Round-5

Date: 31/05/2023

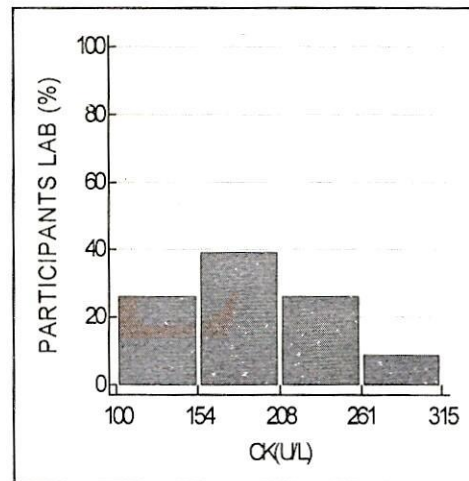
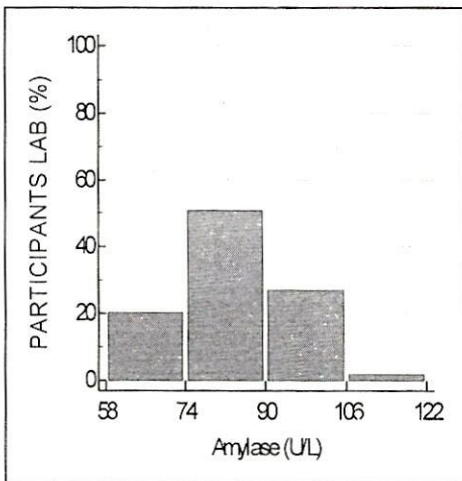
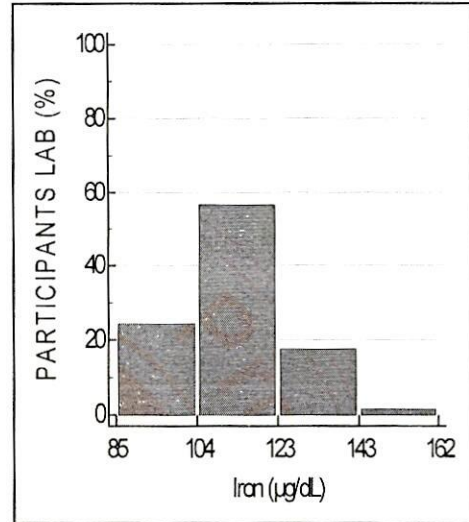
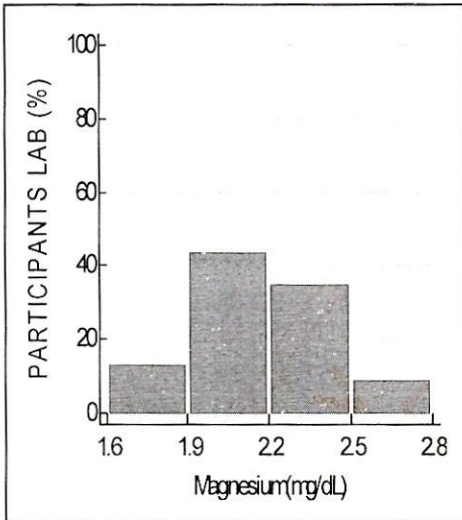


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 12/2023
Round-5

Date: 31/05/2023





RML- Quality Assurance Program (RML-QAP)



Extended Biochemistry -02

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 12/2023
Round No -5

Date: 31/05/2023

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	131	108	11	85	12	11
Alkaline Phosphatase	131	107	7	95	5	7
Bilirubin Total	131	109	3	100	6	3
Calcium(Total)	131	99	4	87	8	4
Cholesterol (Total)	131	108	6	95	7	6
Creatinine	131	109	6	92	11	6
Glucose	131	107	3	100	4	3
HDL	131	102	3	93	6	3
Potassium	131	96	7	89	0	7
Protein (Total)	131	107	3	95	9	3
Sodium	131	96	7	84	5	7
SGPT/ALT	131	108	8	95	5	8
SGOT/AST	131	107	18	83	6	18
Triglyceride	131	107	4	98	5	4
Urea	131	108	6	99	3	6
Uric Acid	131	105	4	95	6	4
Chloride mEq/L	131	91	6	80	5	6
Phosphorus mg/dL	131	85	6	72	7	6
Magnesium mg/dl	131	29	7	20	2	7
Iron µg/dL	131	73	11	59	3	11
Amylase U/L	131	63	4	56	3	4
CK U/L	131	24	0	22	2	0

End of Report

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