



RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-02

ALL METHOD REPORT

Cycle - 13/2024

Round No - 02

Lab Code: 3221

Date: 29.02.2024

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	59	3.0	0.2	0.03	2.5-3.4	3.0	0.2
Alkaline Phosphatase	U/L	56	349.2	49.1	8.20	251.1-447.4	475	2.6
Bilirubin (Total)	mg/dL	59	5.2	0.5	0.09	4.2-6.3	4.7	-1.0
Calcium (Total)	mg/dL	51	12.5	0.7	0.12	11.1-13.9	*10.2	-3.3
Cholesterol (Total)	mg/dL	58	276.4	22.5	3.69	231.5-321.3	268	-0.4
Creatinine	mg/dL	59	4.4	0.3	0.05	3.7-5.1	*6.0	4.7
Glucose	mg/dL	59	267.8	14.5	2.36	238.8-296.8	293	1.7
HDL	mg/dL	53	96.3	15.9	2.73	64.6-128.1	84.3	-0.8
Potassium	mEq/L	44	5.7	0.4	0.07	4.9-6.5	6.2	1.2
Protein (Total)	g/dl	57	4.7	0.4	0.06	3.9-5.4	4.7	0.1
Sodium	mEq/L	44	152.3	7.2	1.35	137.9-166.6	150.0	-0.3
SGPT/ALT	U/L	59	138.3	13.0	2.12	112.3-164.3	129	-0.7
SGOT/AST	U/L	58	144.6	14.3	2.34	116.0-173.1	130	-1.0
Triglyceride	mg/dL	58	251.3	11.3	1.86	228.6-273.9	253	0.2
Urea	mg/dL	59	118.5	9.0	1.46	100.5-136.5	119	0.1
Uric Acid	mg/dl	57	9.4	0.5	0.08	8.4-10.4	9.7	0.6
Chloride	mEq/L	44	112.6	4.4	0.83	103.8-121.3	115	0.6
Phosphorus	mg/dL	33	7.1	0.5	0.12	6.0-8.2	7.6	1.0
Magnesium	mg/dl	20	4.1	0.4	0.12	3.2-4.9	3.20	-1.9
Iron	µg/dL	24	209.7	6.2	1.57	197.4-222.0	206	-0.6
Amylase	U/L	27	282.7	31.5	7.58	219.6-345.7	315	1.0
CK	U/L	18	464.0	72.1	21.23	319.9-608.1	330	-1.9

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: SV

Programme Director

Dr.Bandana Mehrotra

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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

Cycle - 13/2024
Round No - 2

Date: 29/02/2024

Lab Code: 3221

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	Methodwise Z Score
Albumin	g/dL	Bromocresol Green (BCG)	35	2.9	0.2	0.04	2.6-3.3	3.0	0.4
Alkaline Phosphatase	U/L	PNPP	34	344.4	34.8	7.45	274.9-413.9	*475	3.8
Bilirubin Total	mg/dL	Diazonium Ion	29	5.3	0.4	0.10	4.4-6.1	4.7	-1.4
Calcium(Total)	mg/dL	Arsenazo iii	28	12.6	0.8	0.20	10.9-14.3	10	-2.9
Cholesterol(Total)	mg/dL	Cholesterol Oxidase,esterase, peroxidase	38	278	23	4.60	232.6-323.2	268	-0.4
Creatinine	mg/dL	Alkaline picrate	36	4.4	0.4	0.08	3.6-5.2	*6	4.0
Glucose	mg/dL	Glucose oxidase,hydrogen peroxide(Trinder)	26	268.8	12.1	2.96	244.6-292.9	293	2.0
HDL @	mg/dL	Direct measure	32	99.0	12.1	2.68	74.8-123.3	-	-
Potassium	mEq/L	ISE Direct	21	5.6	0.4	0.12	4.8-65	6.2	1.3
Protein (Total)	g/dl	Biuret, reagent blank, end point	38	4.7	0.4	0.08	3.9-5.4	4.7	0.1
Sodium	mEq/L	ISE Direct	19	152.4	3.6	1.03	145.2-159.5	150	-0.7
SGPT/ALT	U/L	UV Kinetic Enzymatic with or without P5P	38	139.6	15.0	3.03	109.6-169.5	129	-0.7
SGOT/AST	U/L	UV Kinetic Enzymatic with or without P5P	38	144	12	2.51	119.6-169.2	130	-1.2
Triglyceride	mg/dL	Enzymatic method	38	251.9	10.6	2.14	230.8-273.1	253	0.1
Urea	mg/dL	Urease	39	120	10	1.91	100.5-138.7	119	-0.1
Uric Acid	mg/dl	Uricase	38	9.5	0.6	0.11	8.4-10.6	9.7	0.4
Chloride	mEq/L	ISE Direct	22	114.4	4.9	1.30	104.7-124.1	115	0.1
Phosphorus	mg/dL	Phosphomolybdate method	20	7.1	0.6	0.18	5.8-8.3	7.6	0.9
Magnesium	mg/dl	Xylidyl blue	10	3.8	0.5	0.21	2.7-4.9	3.20	-1.2
Iron @	µg/dL	Ferrozine	14	208.3	3.9	1.30	200.6-216.1	-	-

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: AV

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

Programme Director

Dr.Bandana Mehrotra

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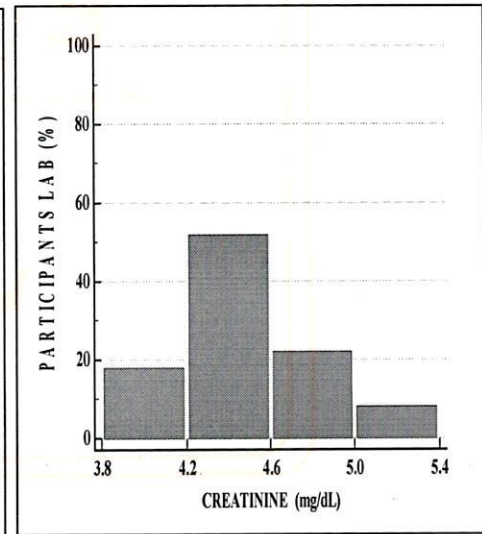
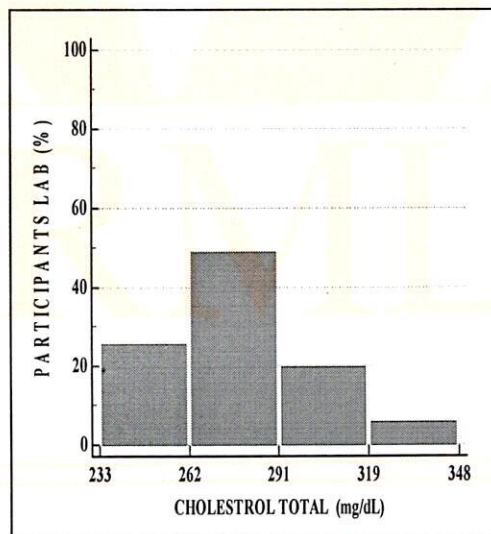
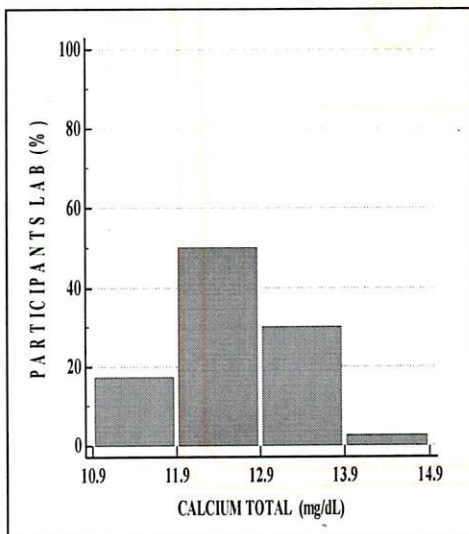
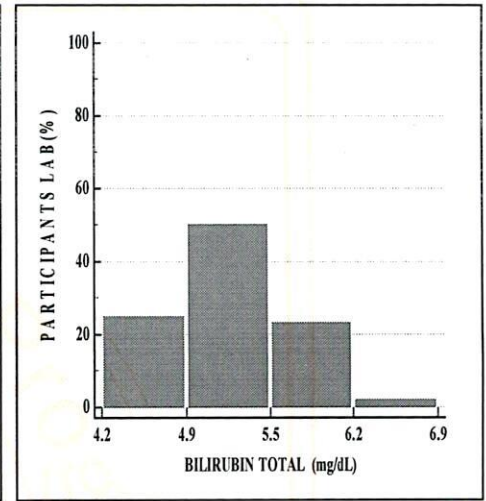
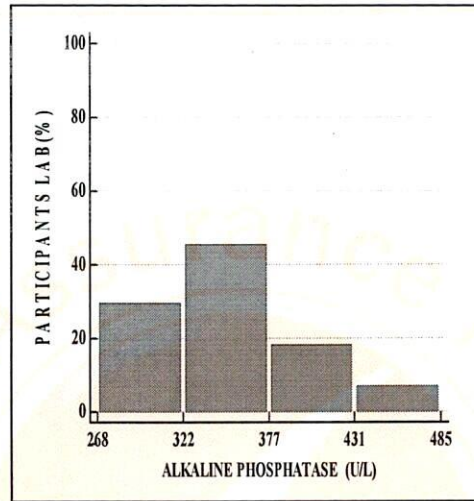
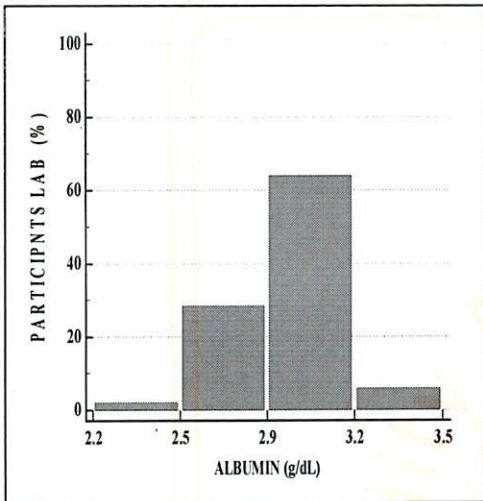
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EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 13/2024
Round-2

Date: 29/02/2024

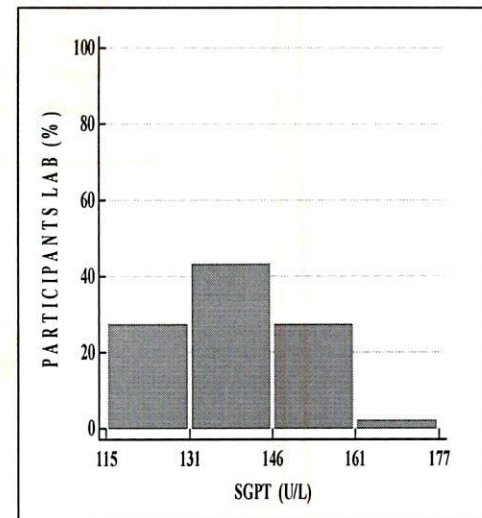
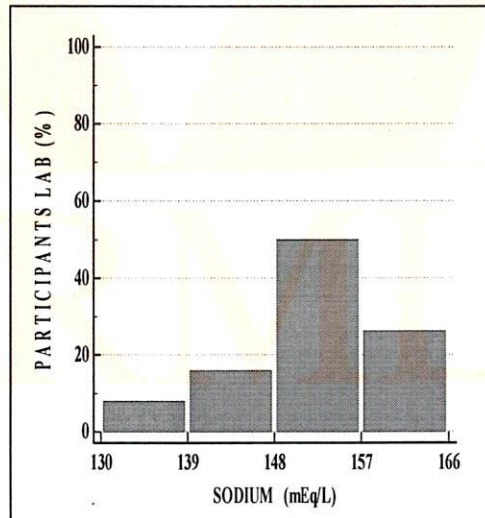
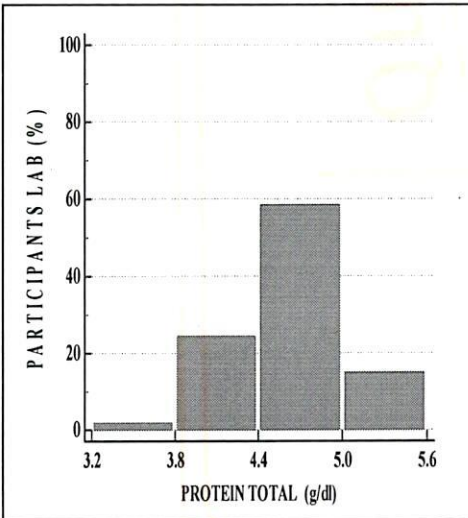
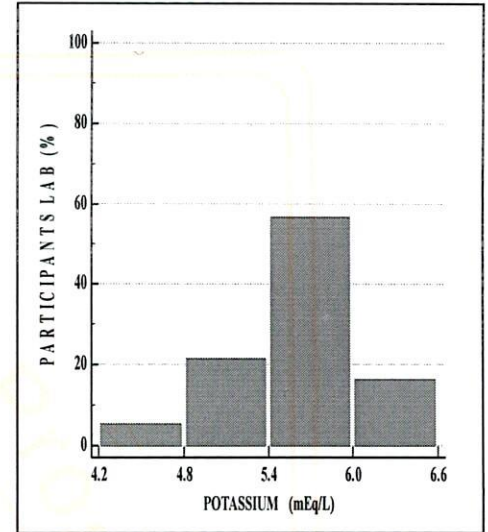
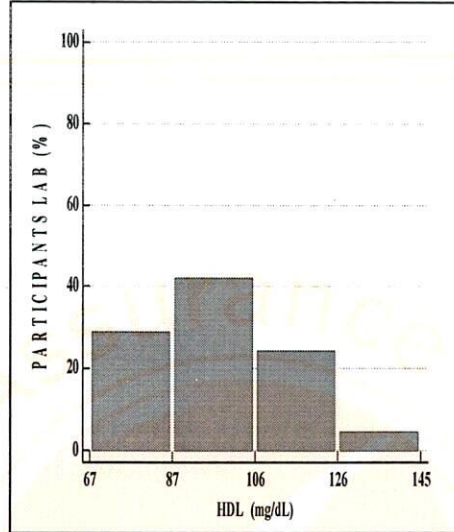
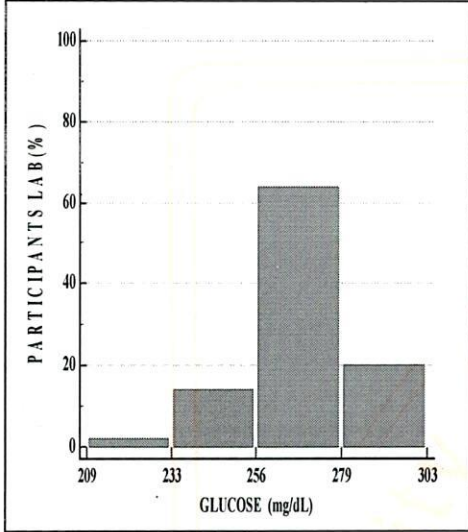


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 13/2024
Round-2

Date: 29/02/2024



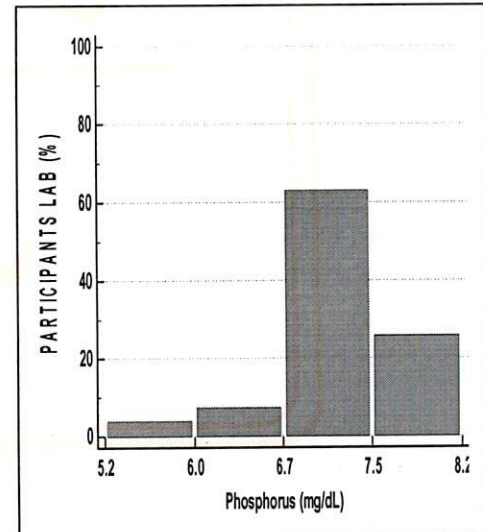
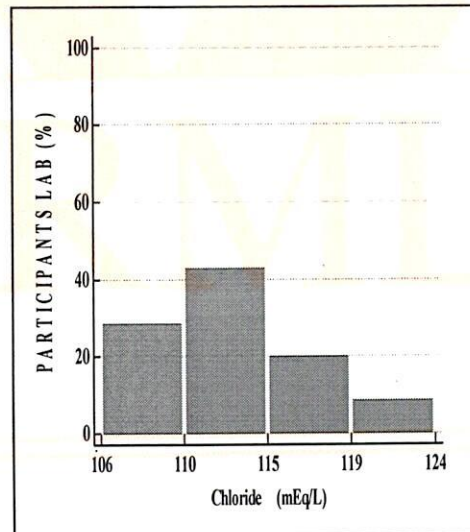
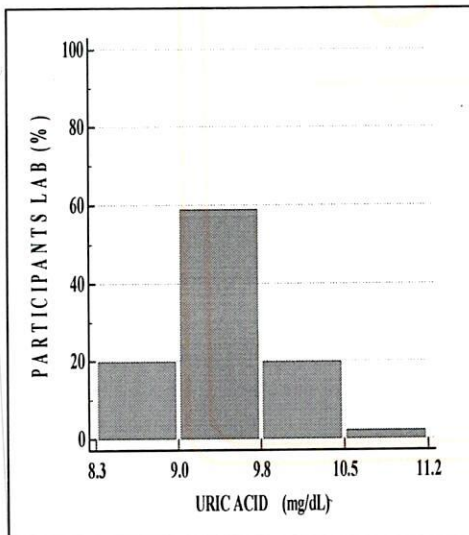
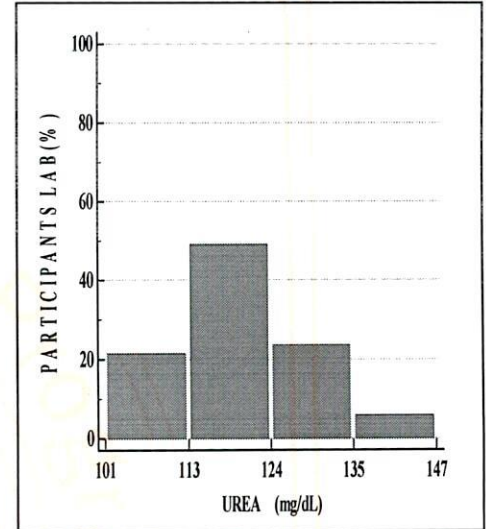
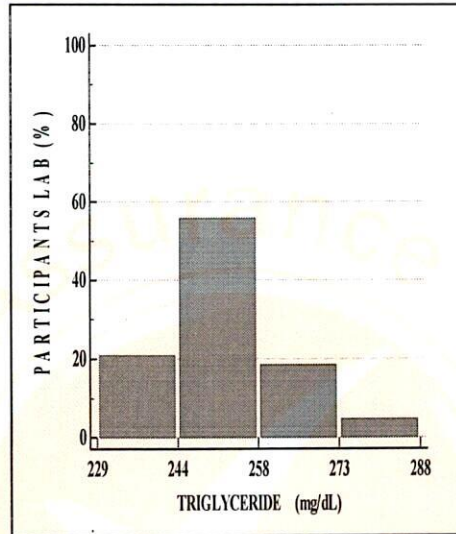
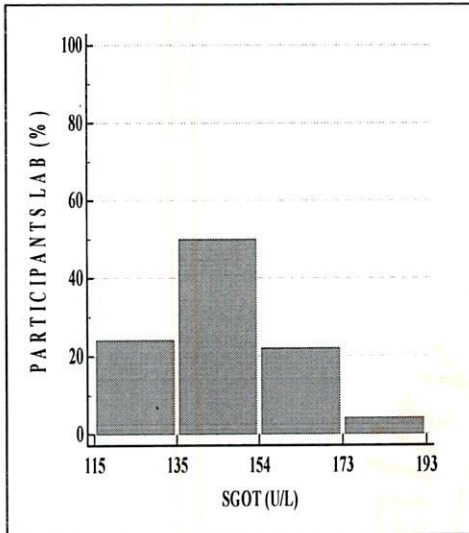


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GRAPHICAL REPORT

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Round-2

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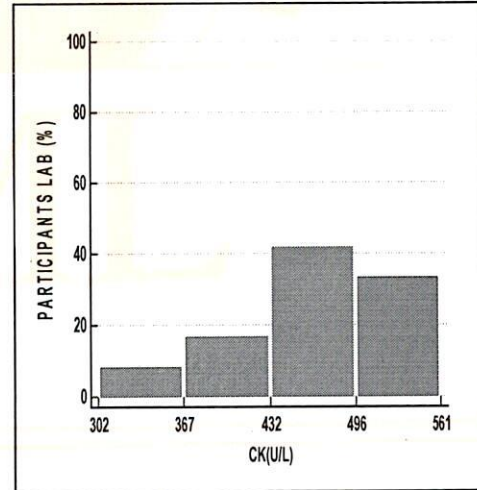
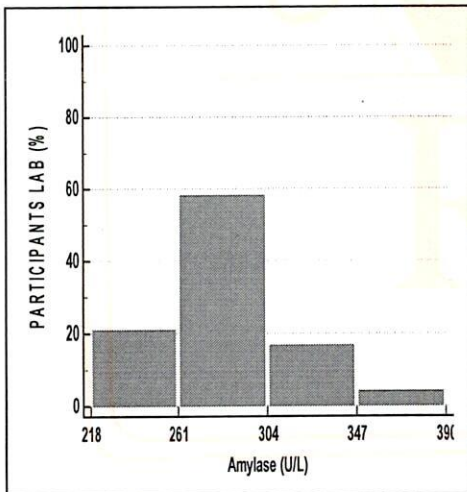
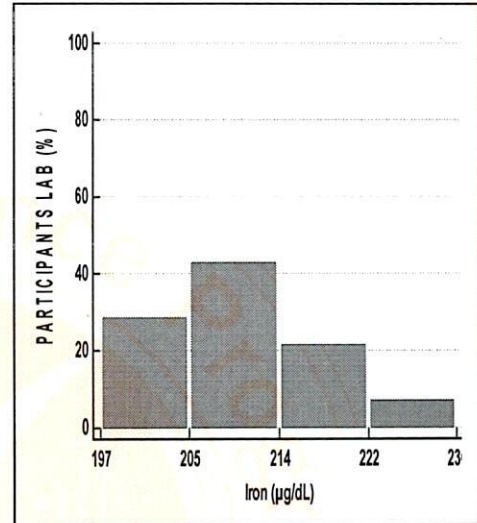
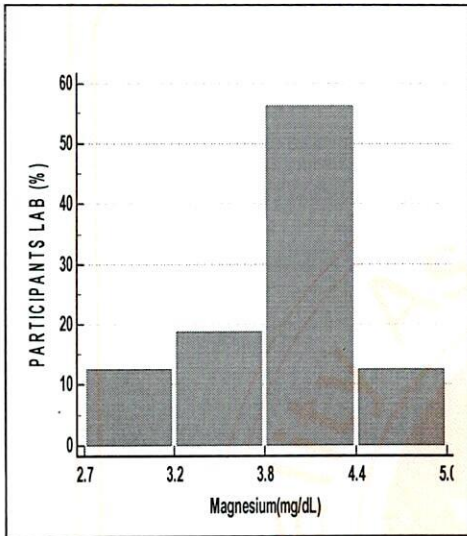


EXTENDED BIO-CHEMISTRY-02

GRAPHICAL REPORT

Cycle - 13/2024
Round-2

Date: 29/02/2024





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Extended Biochemistry -02

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 13/2024

Round No - 2

Date: 29/02/2024

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	69	59	6	50	3	6
Alkaline Phosphatase	69	56	8	44	4	8
Bilirubin Total	69	59	7	51	1	7
Calcium(Total)	69	51	9	40	2	9
Cholesterol (Total)	69	58	7	47	4	7
Creatinine	69	59	7	49	3	7
Glucose	69	59	9	47	3	9
HDL	69	52	3	43	6	3
Potassium	69	44	7	35	2	7
Protein (Total)	69	57	4	50	3	4
Sodium	69	44	5	38	1	5
SGPT/ALT	69	59	7	51	1	7
SGOT/AST	69	58	7	48	3	7
Triglyceride	69	58	14	43	1	14
Urea	69	59	8	48	3	8
Uric Acid	69	57	12	43	2	12
Chloride mEq/L	69	44	8	35	1	8
Phosphorus mg/dL	69	33	6	26	1	6
Magnesium mg/dl	69	20	3	16	1	3
Iron µg/dL	69	23	9	13	1	9
Amylase U/L	69	26	2	22	2	2
CK U/L	69	18	5	12	1	5

****End of Report****

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