



RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-01

ALL METHOD REPORT

Cycle - 13/2024

Round No - 04

Lab Code: 2411

Date: 30/04/2024

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	205	3.0	0.2	0.02	2.6-3.4	2.9	-0.5
Alkaline Phosphatase	U/L	206	348.4	63.9	5.57	220.7-476.1	250	-1.5
Bilirubin Total	mg/dL	210	5.2	0.5	0.04	4.1-6.2	5.3	0.2
Calcium(Total)	mg/dL	182	12.4	0.6	0.06	11.1-13.6	12.4	0.0
Cholesterol (Total)	mg/dL	204	278.7	14.8	1.30	249.1-308.4	292	0.9
Creatinine	mg/dL	212	4.4	0.4	0.03	3.6-5.2	4.1	-0.8
Glucose	mg/dL	210	274.2	16.6	1.43	240.9-307.5	275	0.0
HDL	mg/dL	189	104.7	19.1	1.74	66.4-143.0	104.9	0.0
Potassium	mEq/L	162	5.7	0.3	0.03	5.1-6.3	5.5	-0.7
Protein (Total)	g/dl	204	4.7	0.4	0.04	3.9-5.5	4.4	-0.7
Sodium	mEq/L	162	152.6	4.9	0.48	142.8-162.4	148	-0.9
SGPT/ALT	U/L	208	128.5	11.5	1.00	105.5-151.5	133	0.4
SGOT/AST	U/L	208	140.1	11.3	0.98	117.5-162.8	138	-0.2
Triglyceride	mg/dL	204	250.9	15.4	1.35	220.1-281.7	219	-2.1
Urea	mg/dL	209	120.3	9.9	0.86	100.5-140.1	140	2.0
Uric Acid	mg/dl	208	9.3	0.6	0.05	8.2-10.5	8.8	-0.8

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

Dr.Sanjay Mehrotra

Checked By:

Prepared by: TC

Programme Director

Dr.Bandana Mehrotra

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RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY-01

METHOD WISE REPORT PART-01

Cycle - 13/2024

Round No - 04

Date: 30/04/2024

Lab Code: 2411

Note: Your Lab is not the part of this method group

Parameters	Units	Method Group	No.of. Participants in Group	Method Wise Robust Mean	Method Wise Robust Standard deviation (SD)	Method Wise Uncertainty of Assign Values	Method Wise Range (± 2 SD)	Your Value	Method Wise Z Score
Albumin	g/dL	Bromcresal Green (BCG)	99	3.0	0.2	0.02	2.6-3.4	-	-
Alkaline Phosphatase	U/L	PNPP	94	342.1	60.7	7.82	220.8-463.5	-	-
Bilirubin Total	mg/dL	Diazonium Ion	65	5.2	0.5	0.08	4.1-6.2	-	-
Calcium(Total)	mg/dL	Arsenazo iii	68	12.5	0.6	0.09	11.3-13.6	-	-
Cholesterol (Total)	mg/dL	Cholestrol Oxidase,esterase, peroxidase	101	278.1	17.3	2.15	243.6-312.6	-	-
Creatinine	mg/dL	Alkaline picrate	74	4.3	0.4	0.06	3.4-5.1	-	-
Glucose	mg/dL	Glucose oxidase,hydrogen peroxide(Trinder)	82	275.8	15.3	2.12	245.1-306.5	-	-
HDL	mg/dL	Direct measure	73	104.3	17.5	2.56	69.4-139.3	-	-
Potassium	mEq/L	ISE Direct	66	5.7	0.3	0.05	5.1-6.3	-	-
Protein (Total)	g/dl	Biuret	103	4.7	0.4	0.05	4.0-5.5	-	-
Sodium	mEq/L	ISE Direct	62	152.4	5.1	0.81	142.2-162.6	-	-
SGPT/ALT	U/L	UV Kinetic Enzymatic with or without PSP	97	129.7	10.1	1.28	109.6-149.9	-	-
SGOT/AST	U/L	UV Kinetic Enzymatic with or without PSP	101	140.3	11.6	1.44	117.0-163.6	-	-
Triglyceride	mg/dL	Enzymatic	100	250.9	14.7	1.84	221.5-280.2	-	-
Urea	mg/dL	Urease	99	120.5	9.2	1.16	102.2-138.8	-	-
Uric Acid	mg/dl	Uricase	99	9.4	0.6	0.08	8.1-10.7	-	-

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

Programme Director

Dr.Sanjay Mehrotra

Dr.Bandana Mehrotra

Checked By:
Prepared by: NT

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RML- Quality Assurance Program (RML-QAP)



BIO-CHEMISTRY

METHOD WISE PART-2

Cycle - 13/2024

Round No - 04

Date: 30/04/2024

Lab Code: 2411

Note: Your Lab 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	Method wise Z Score
Bilirubin Total	mg/dL	Sulphanalic Acid, DMSO	16	5.3	0.6	0.17	4.2-6.5	-	-
Calcium (Total)	mg/dL	Bapta	16	12.5	0.4	0.14	11.6-13.4	-	-
Glucose	mg/dL	Hexokinase	19	275.1	8.8	2.51	257.6-292.6	-	-
Potassium	mEq/L	ISE indirect	13	5.9	0.2	0.07	5.5-6.2	-	-
Sodium	mEq/L	ISE indirect	18	153.8	3.6	1.05	146.7-160.9	-	-

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: SM

Programme Director

Dr.Bandana Mehrotra

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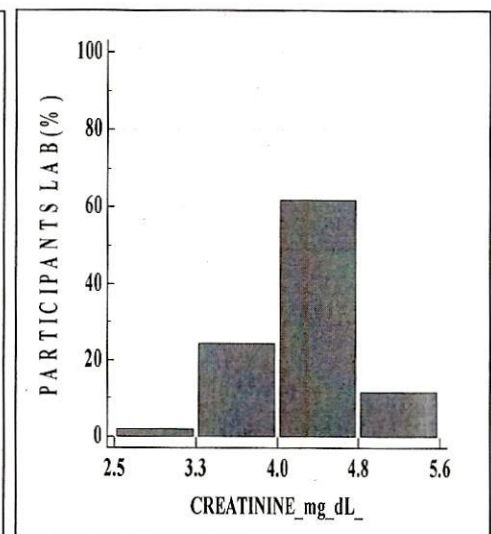
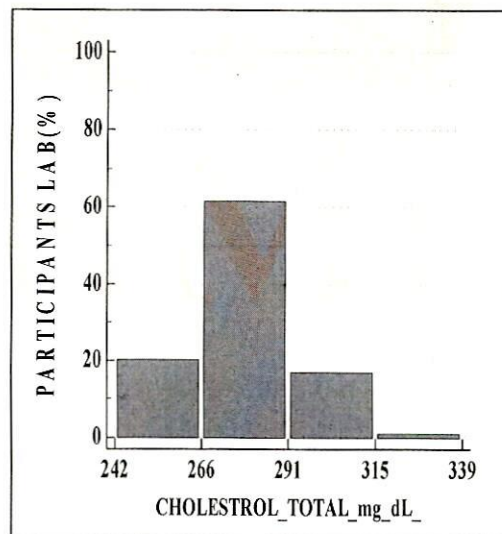
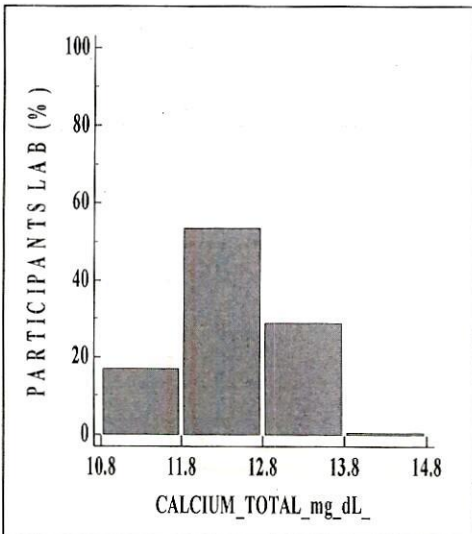
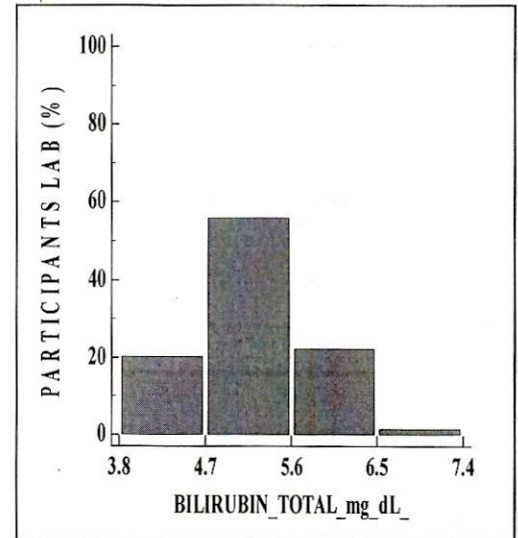
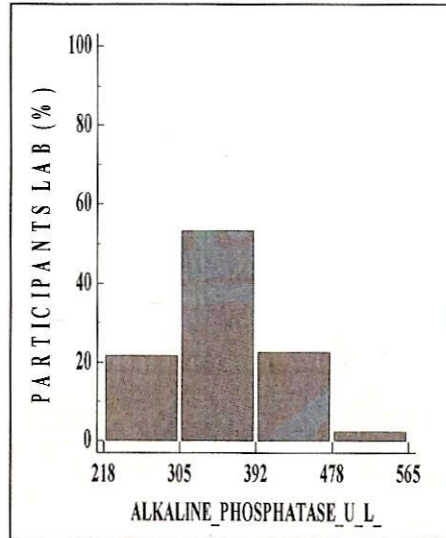
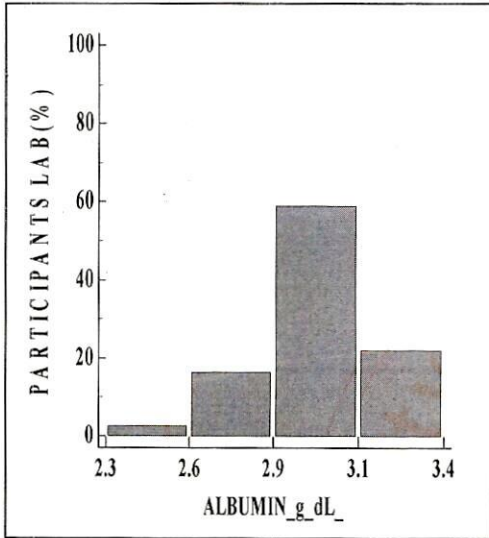
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BIO-CHEMISTRY-01

GRAPHICAL REPORT

Cycle - 13/2024
Round- 04

Date: 30/04/2024

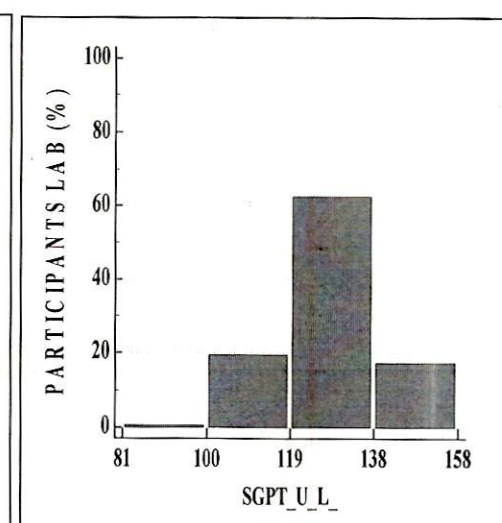
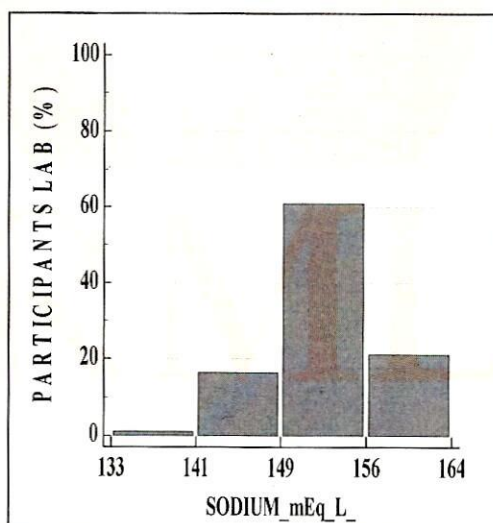
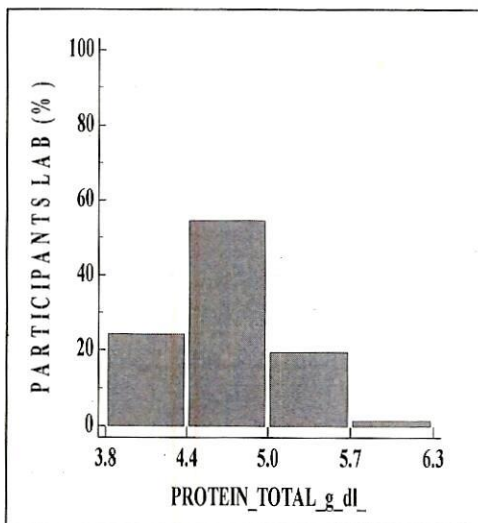
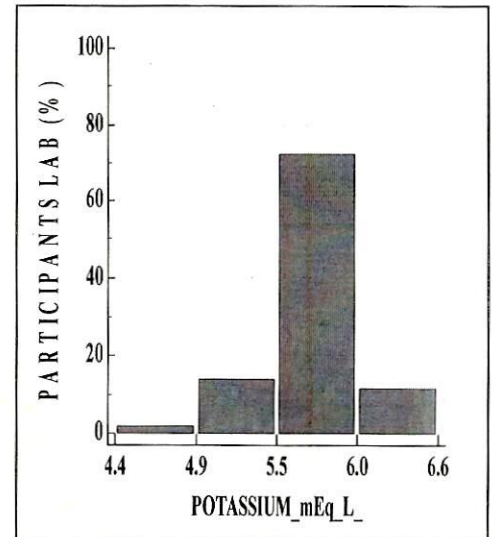
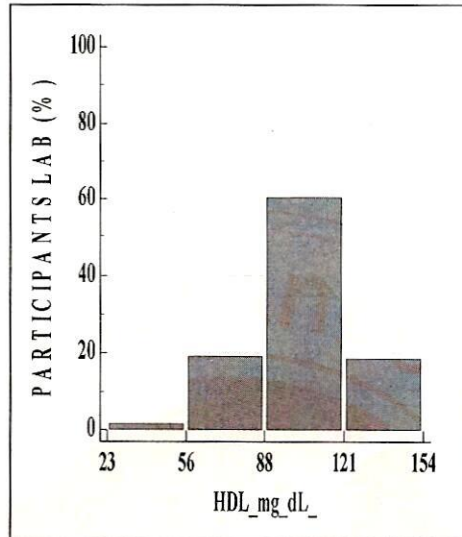
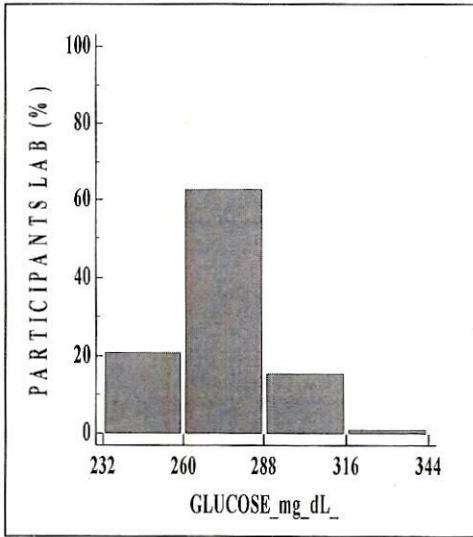


BIO-CHEMISTRY-01

GRAPHICAL REPORT

Cycle - 13/2024
Round- 04

Date: 30/04/2024



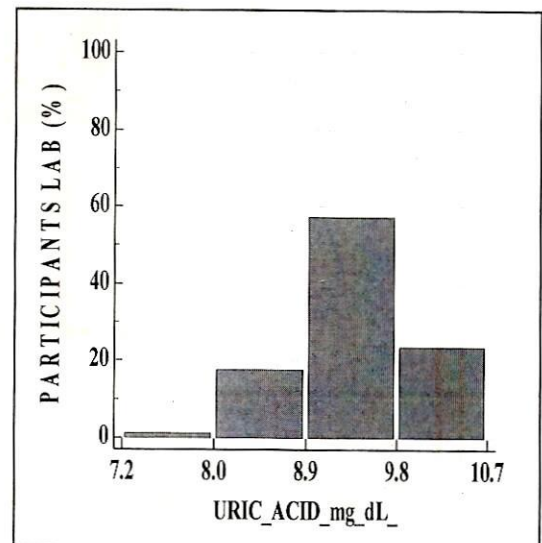
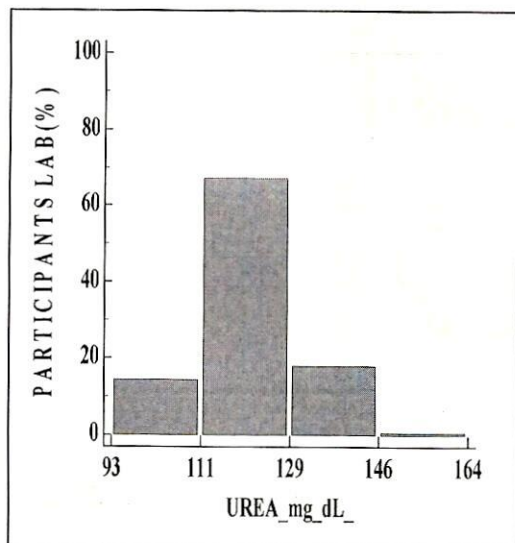
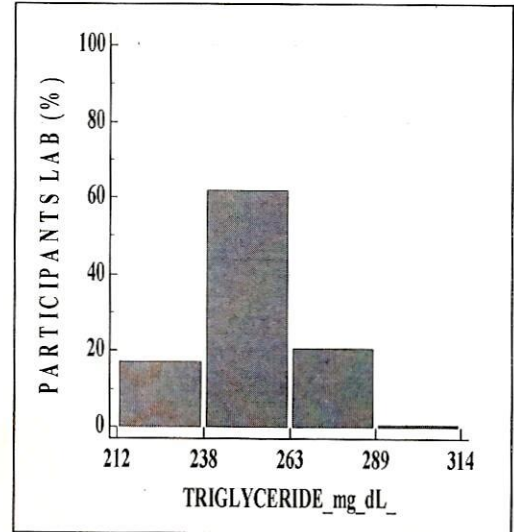
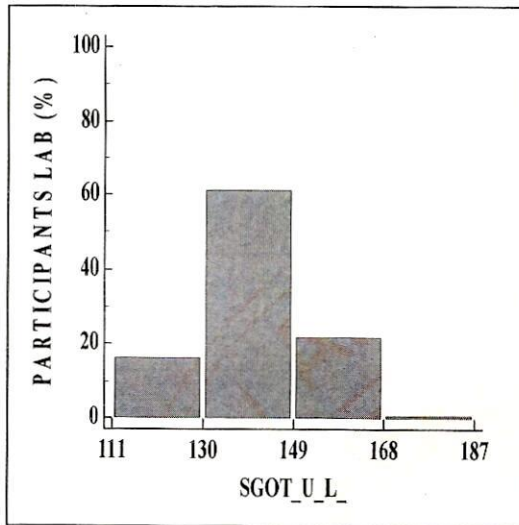
BIO-CHEMISTRY-01

GRAPHICAL REPORT

Cycle - 13/2024

Round- 04

Date: 30/04/2024





Basic Biochemistry-01

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 13/2023

Round No -04

Date: 30/04/2024

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	286	205	17	174	14	17
Alkaline Phosphatase	286	206	6	195	5	6
Bilirubin Total	286	210	13	187	10	13
Calcium(Total)	286	182	29	146	7	29
Cholesterol (Total)	286	204	17	167	20	17
Creatinine	286	212	17	180	15	17
Glucose	286	210	13	182	15	13
HDL	286	189	7	172	10	7
Potassium	286	162	7	147	8	7
Protien (Total)	286	204	14	175	15	14
Sodium	286	162	12	147	3	12
SGPT/ALT	286	208	20	177	11	20
SGOT/AST	286	208	20	178	10	20
Triglyceride	286	204	27	165	12	27
Urea	286	209	19	180	10	19
Uric Acid	286	208	26	173	9	26

****End of Report****

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RML- Quality Assurance Program (RML-QAP)



IMMUNOLOGY

ALL METHOD REPORT

Lab Code: 2411

Cycle - 13/2024
Round No -04

Date: 30/04/2024

Parameters	Units	No. of Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range (± 2 SD)	Your Value	Z Score
TSH	μ IU/ml	107	1.5	0.2	0.02	1.1-1.9	1.15	-2.0
T4	nmol/L	105	94.6	9.2	1.12	76.2-113.0	116.4	2.4
T3	nmol/L	104	2.5	0.3	0.04	1.9-3.1	2.45	-0.1
PRL	ng/ml	79	7.9	1.1	0.15	5.8-10.0	6.31	-1.5
LH	mIU/ml	74	12.2	2.1	0.31	8.0-16.4	6.07	-2.9
FSH	mIU/ml	73	21.0	2.0	0.29	17.0-25.0	16.71	-2.1
Progesterone	ng/mL	34	0.6	0.1	0.01	0.4-0.7	0.60	0.4
Testosterone	ng/mL	41	0.9	0.1	0.03	0.6-1.1	.	-
Estradiol	pg/ml	38	40.5	6.5	1.31	27.5-53.5	54.0	2.1
Cortisol*	nmol/L	16	479.2	37.3	11.67	404.5-553.8	.	-

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: SUV

Programme Director

Dr.Bandana Mehrotra

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RML- Quality Assurance Program (RML-QAP)



IMMUNOLOGY

METHOD REPORT PART-01

Lab Code: 2411

Cycle - 13/2024
Round No - 04

Date: 30/04/2024

Note: Your Lab is not the part of this method group.

Parameters	Units	Method Group	No. of Participants	Method Wise Group Mean	Method Wise Standard deviation (SD)	Method Wise Uncertainty of Assign Values	Method Wise Range (± 2 SD)	Your Value	Method Wise Z Score
TSH	μ IU/ml	Chemiluminescence	48	1.5	0.2	0.03	1.2-1.8	-	-
T4	nmol/L	Chemiluminescence	44	96.3	9.2	1.74	77.9-114.7	-	-
T3	nmol/L	Chemiluminescence	44	2.4	0.3	0.06	1.8-3.0	-	-
PRL	ng/mL	Chemiluminescence	32	7.2	1.2	0.27	4.8-9.6	-	-
LH	mIU/mL	Chemiluminescence	28	12.0	2.6	0.63	6.7-17.2	-	-
FSH	mIU/mL	Chemiluminescence	29	21.4	3.2	0.74	15.0-27.8	-	-

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: SUV

Programme Director

Dr. Bandana Mehrotra

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IMMUNOLOGY

METHOD REPORT PART-02

Lab Code: 2411

Cycle - 13/2024
Round No - 04

Date: 30/04/2024

Note: Your Lab is not the part of this method group.

Parameters	Units	Method Group	No. of Participants	Method Wise Group Mean	Method Wise Standard deviation (SD)	Method Wise Uncertainty of Assign Values	Method Wise Range (± 2 SD)	Your Value	Method Wise Z Score
TSH	μ IU/ml	Electrochemiluminescence	21	1.6	0.1	0.02	1.5-1.7	-	-
T4	nmol/L	Electrochemiluminescence	24	95.2	6.3	1.61	82.6-107.9	-	-
T3	nmol/L	Electrochemiluminescence	24	2.7	0.1	0.04	2.4-2.9	-	-
PRL	ng/mL	Electrochemiluminescence	22	8.1	0.4	0.10	7.4-8.9	-	-
LH	mIU/mL	Electrochemiluminescence	23	12.2	0.6	0.16	11.0-13.4	-	-
FSH	mIU/mL	Electrochemiluminescence	22	21.3	1.7	0.44	17.9-24.6	-	-

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: SUV

Programme Director


Dr. Bandana Mehrotra

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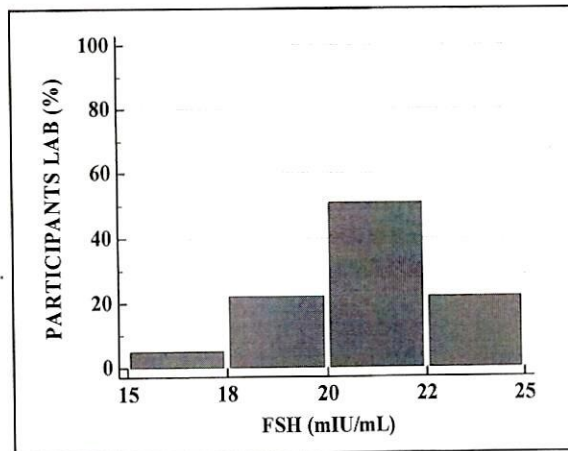
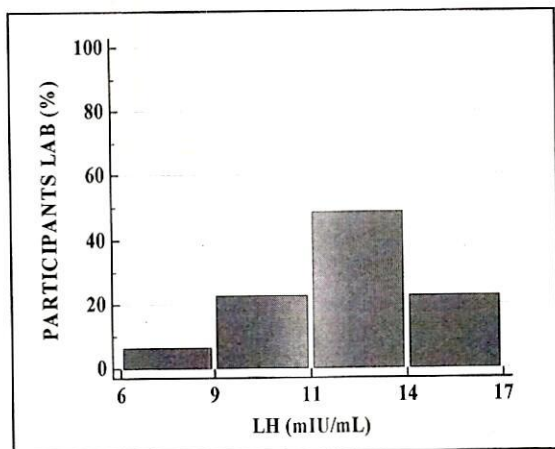
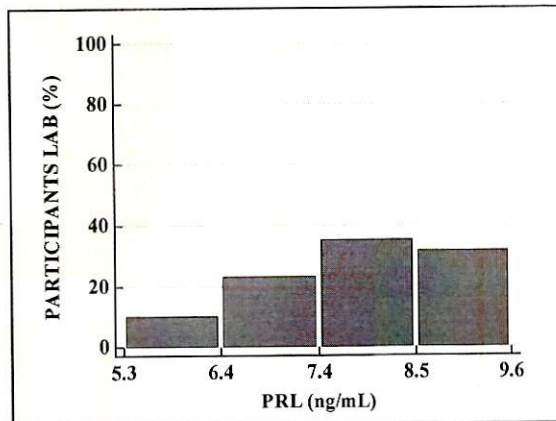
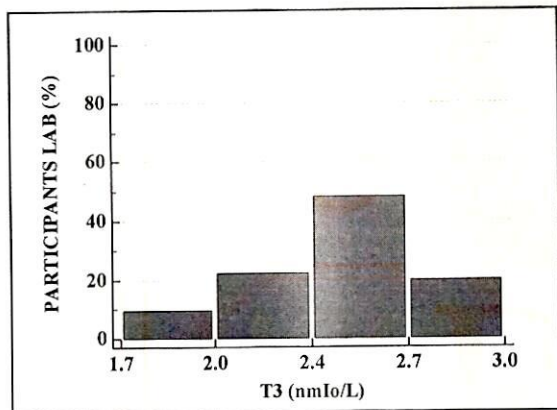
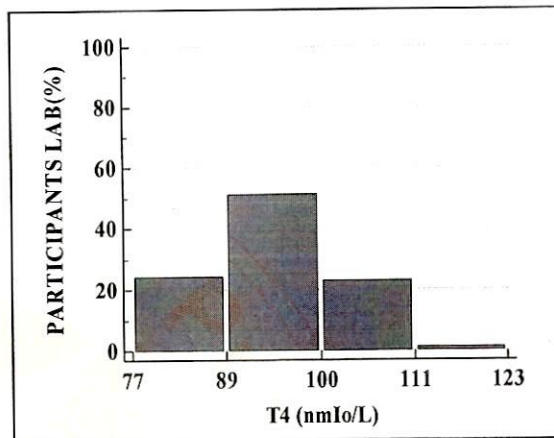
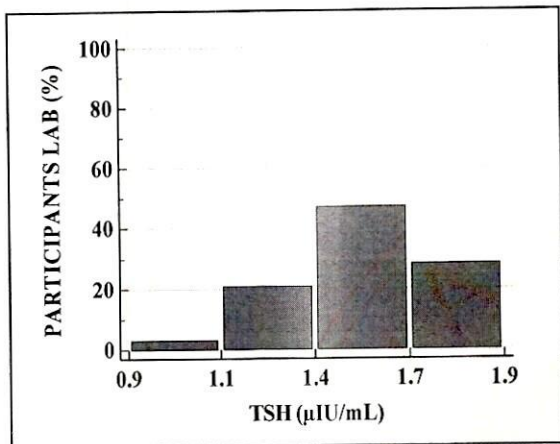
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GRAPHICAL REPORT

Cycle - 13/2024
Round-04

Date: 30/04/2024





PC 1001

RML- Quality Assurance Program (RML-QAP)

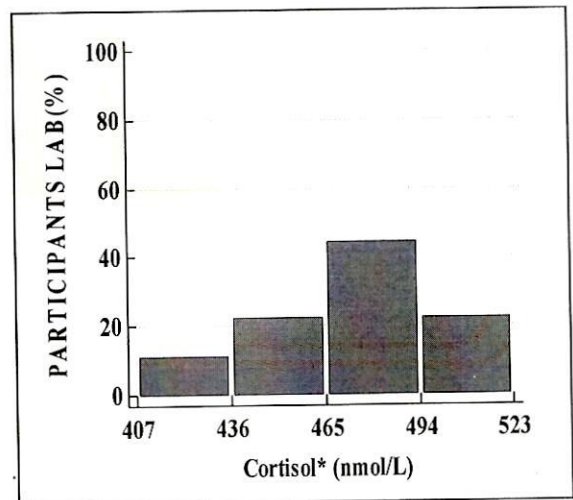
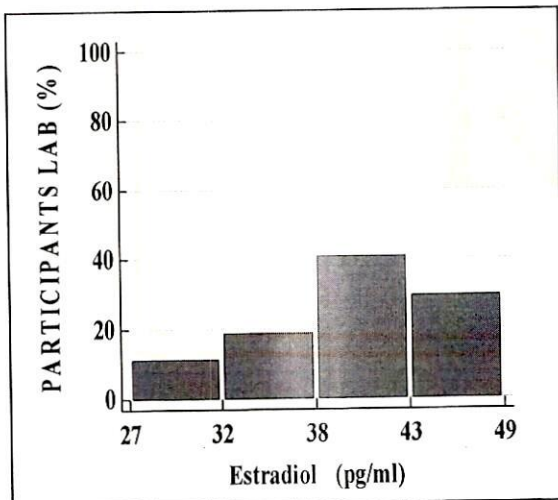
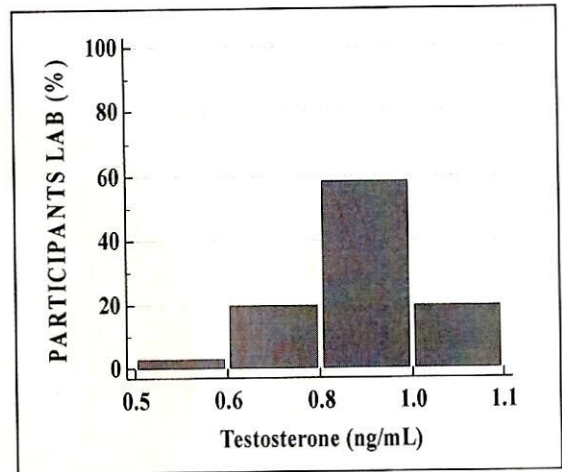
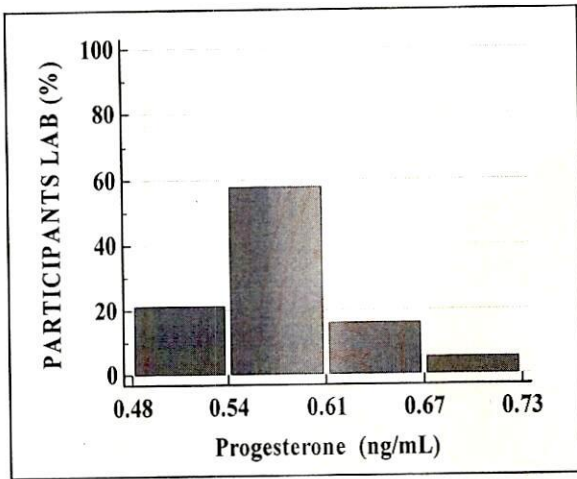


IMMUNOLOGY

GRAPHICAL REPORT

Cycle - 13/2024
Round-04

Date: 30/04/2024



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Immunology

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 13/2024

Round No -4

Date: 30/04/2024

Note:- This report is only for information about the participant's 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
TSH	114	107	4	94	9	4
T4	114	105	18	82	5	18
T3	114	104	13	83	8	13
PRL	114	79	5	68	6	5
LH	114	74	5	64	5	5
FSH	114	73	4	57	12	4
Progesterone	114	34	6	23	5	6
Testosterone	114	41	3	35	3	3
Estradiol	114	38	6	28	4	6
Cortisol*	114	16	3	9	4	3

****End of Report****

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