



# RML- Quality Assurance Program (RML-QAP)



## HEMATOLOGY

### ALL METHOD REPORT

Cycle-12/2023

Lab Code: 3116

Round -6

Date: 29/12/2023

#### Complete Blood Count (CBC)

Parameters	No.of Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range ( $\pm 2$ SD)	Your Value	Z Score
Hb gm/dl	332	11.3	0.4	0.02	10.6-12.0	11.1	-0.5
WBC $\times 10^3/\mu\text{l}$ .	326	11.4	0.8	0.06	9.8-13.0	9.3	-2.6
RBC $\times 10^6/\mu\text{l}$ .	330	3.9	0.1	0.01	3.6-4.2	4.02	1.0
Hct%	330	33.6	2.2	0.15	29.2-38.0	34.0	0.2
MCV fl.	330	87.0	4.8	0.33	77.4-96.6	84.5	-0.5
MCH pg.	330	29.1	0.8	0.06	27.5-30.7	27.5	-2.0
MCHC gm/dl	329	33.4	2.0	0.14	29.4-37.4	32.5	-0.4
Platelet $\times 10^3/\mu\text{l}$ .	327	257.4	20.7	1.43	216.0-298.8	286	1.4

#### 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

#### Peripheral Blood Smear(PBS):

	Your Result	Consensus Result
DLC	B-03, Pro- 19, M-22, Meta-05, Stabs-06, P-28, L-05, E-04, Mono-02, Baso-03, nRBC-03	M- 5.3-23.3, Meta- 4.8-17.0, Stabs- 4.7-19.5, P- 26.3-63.3, L- 3.1-11.3
Morphology	RBCs- Normocytic Normochromic with mild Anisopoikilocytosis. Few NRBC. WBCs- Total count is elevated shift to left seen with Myelocyte peak and increased promyelocytes with few bands, metamyelocytes and Basophils. 3% Blasts seen. Platelets -Adequate	$\Delta$ Normocytic/Normochromic (290/292) $\Delta$ Shift to Left (188/292) $\Delta$ Leukocytosis (150/292) $\Delta$ Toxic Granules/Toxic Changes (61/292) $\Delta$ Neutrophilic Leucocytosis (55/292)
Diagnosis	Chronic Myeloid Leukemia- Chronic phase	Leukemoid Reaction

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

\*\*End of Report\*\*

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# RML- Quality Assurance Program (RML-QAP)



## HEMATOLOGY

### METHOD WISE REPORT

Cycle-12/2023

Round -6

Date: 29/12/2023

Lab Code: 3116

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

#### Complete Blood Count (CBC)

Parameters	Method Group	No.of Participants	Method Wise Robust Mean	Method Wise Robust Standard deviation (SD)	Method Wise Uncertainty of Assign Values	Method Wise Range ( $\pm 2$ SD)	Your Value	Method Wise Z Score
Hb gm/dl	Photometric	189	11.3	0.3	0.03	10.6-12.0	-	-
WBC $\times 10^3/\mu\text{L}$	Electrical impedance	171	11.3	0.7	0.07	9.9-12.8	-	-
RBC $\times 10^6/\mu\text{L}$	Electrical impedance	189	3.9	0.1	0.01	3.6-4.1	-	-
Hct%	Calculated	186	33.6	2.1	0.20	29.3-37.9	-	-
MCV fl.	Calculated	129	86.0	4.3	0.48	77.3-94.6	-	-
MCH pg.	Calculated	193	29.2	0.7	0.06	27.7-30.6	-	-
MCHC gm/dl	Calculated	195	33.6	2.0	0.18	29.6-37.7	-	-
Platelet $\times 10^3/\mu\text{L}$	Electrical impedance	184	256.4	19.0	1.75	218.5-294.4	-	-

#### 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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Chief Coordinator

Programme Director

Dr.Sanjay Mehrotra

Dr.Bandana Mehrotra

Checked By:

**\*\*End of Report\*\***

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Prepared By: SV

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# RML- Quality Assurance Program (RML-QAP)



## HEMATOLOGY

### PEER GROUP REPORT

HORIBA INSTRUMENTS- Yumizen H500/H550/H1500/Pentra E560/  
Penta ES 60/ABX Pentra XL 80/ABX Micros 60/ Micros 60

Cycle-12/2023

Lab Code: 3116

Round -6

Date: 29/12/2023

#### Complete Blood Count (CBC)

Parameters	Instrument Group	No. of Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range ( $\pm 2$ SD)	Your Value	Z Score
Hb gm/dl	Horiba	64	11.2	0.3	0.05	10.6-11.9	11.1	-0.3
WBC $\times 10^3/\mu\text{l}$ .	Horiba	63	8.7	1.2	0.19	6.3-11.1	9.3	0.5
RBC $\times 10^6/\mu\text{l}$ .	Horiba	64	3.9	0.1	0.02	3.7-4.2	4.02	0.9
Hct%	Horiba	64	32.4	1.5	0.24	29.4-35.5	34.0	1.0
MCV fl.	Horiba	64	83.1	2.4	0.38	78.2-88.0	84.5	0.6
MCH pg.	Horiba	64	28.7	0.7	0.11	27.2-30.1	27.5	-1.6
MCHC gm/dl	Horiba	63	34.6	1.6	0.26	31.3-37.9	32.5	-1.3
Platelet $\times 10^3/\mu\text{l}$ .	Horiba	63	263.5	18.5	2.91	226.5-300.4	286	1.2

#### 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:

**\*\*End of Report\*\***

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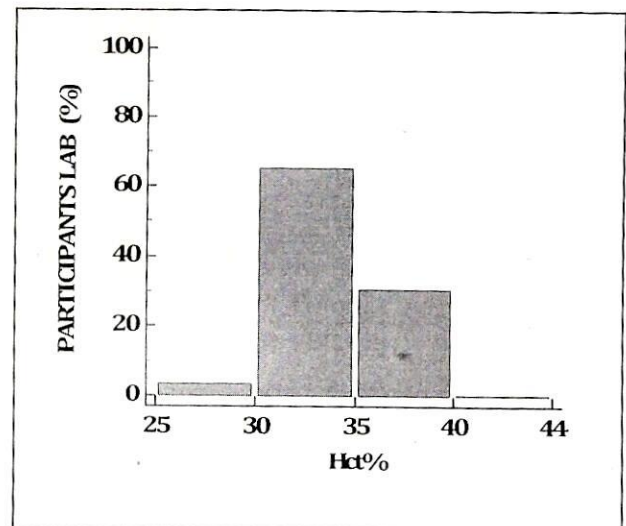
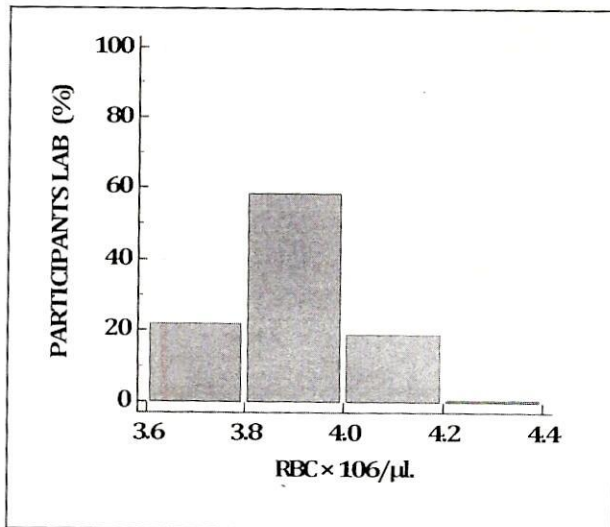
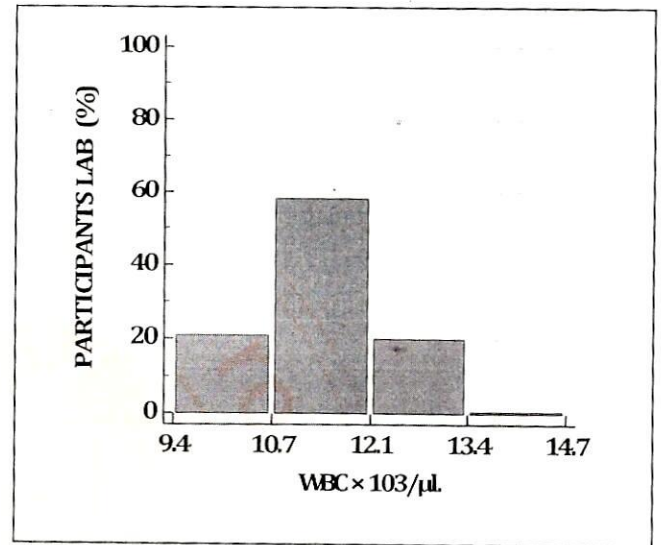
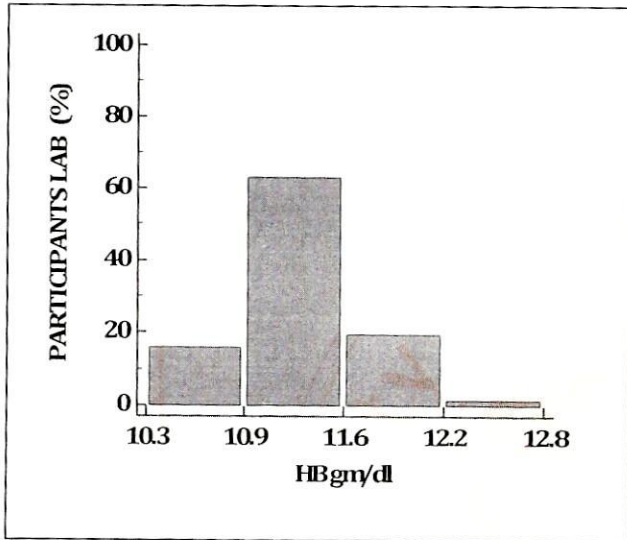
## HEMATOLOGY

### GRAPHICAL REPORT

Cycle - 12/2023

Round -6

Date: 29/12/2023





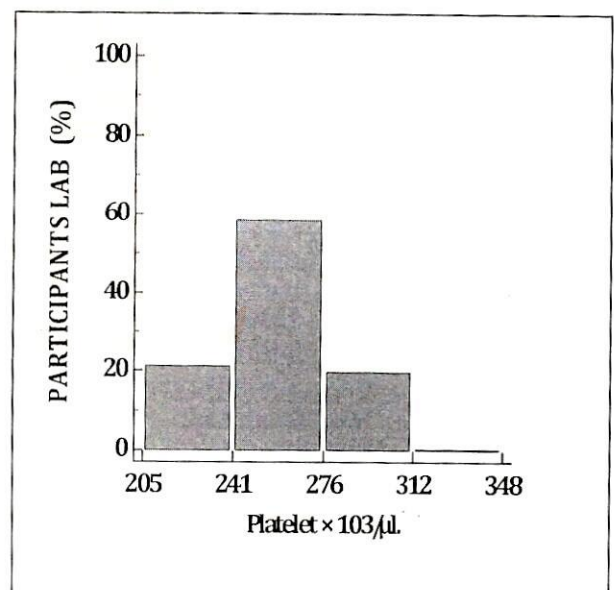
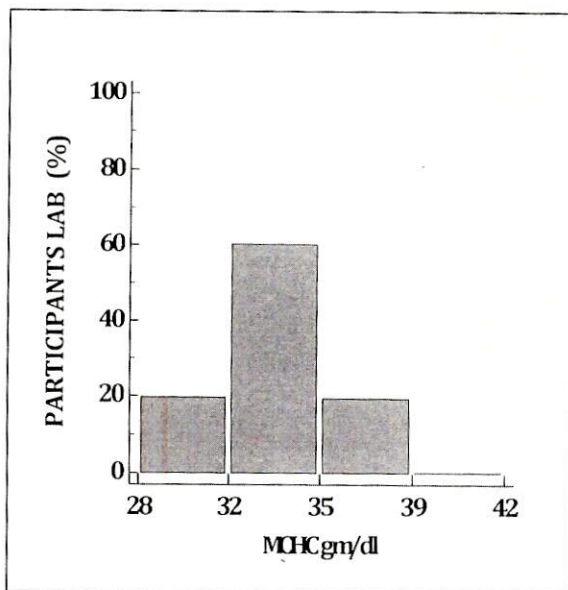
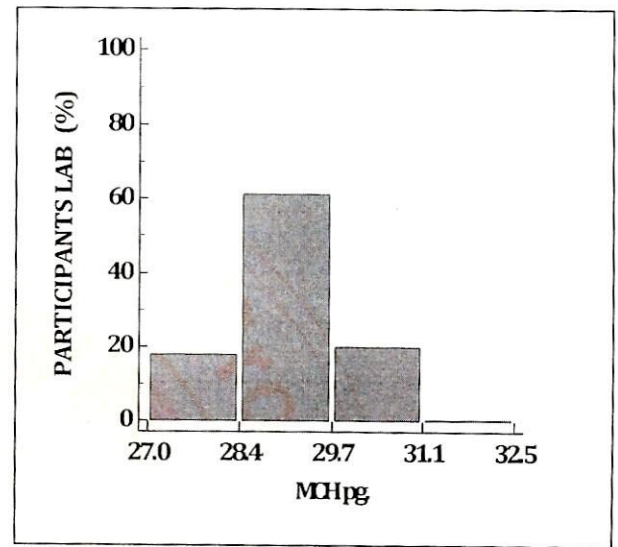
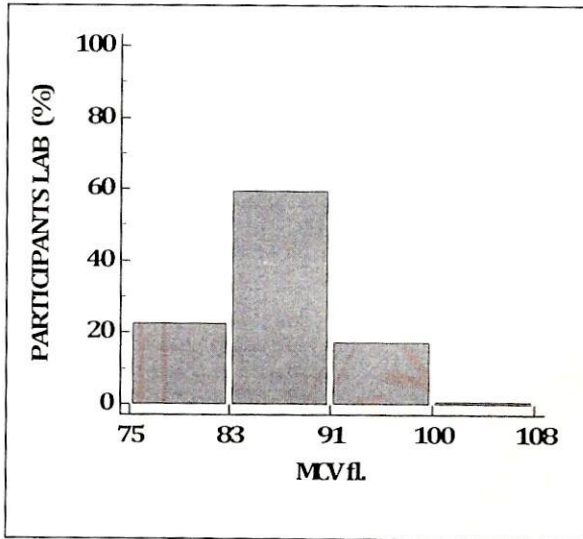
## HEMATOLOGY

### GRAPHICAL REPORT

Cycle - 12/2023

Round -6

Date: 29/12/2023





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# RML- Quality Assurance Program (RML-QAP)



## Hematology

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 12/2023

Round No - 6

Date: 29/12/2023

**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
Hb gm/dl	470	332	44	271	17	44
WBC × 10 <sup>3</sup> /μl.	470	326	112	198	16	112
RBC × 10 <sup>3</sup> /μl.	470	330	52	252	26	52
HCT%	470	330	33	283	14	33
MCV fl.	470	330	7	314	9	7
MCH pg.	470	330	22	293	15	22
MCHC gm/dl	470	329	11	303	15	11
Platelet × 10 <sup>3</sup> /μl.	470	327	26	290	11	26

**\*\*End of Report\*\***

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