



PC 1001

RML- Quality Assurance Program (RML-QAP)



HEMATOLOGY

ALL METHOD REPORT

Lab Code: 2734

Cycle-12/2023

Round -3

Date: 30/06/2023

Complete Blood Count (CBC)

Parameters	No. of Participants	Robust Mean	Robust Standard deviation (SD)	Uncertainty of Assign Values	Range (± 2 SD)	Your Value	Z Score
Hb gm/dl	289	11.6	0.4	0.03	10.8-12.4	11.6	0.0
WBC $\times 10^3/\mu\text{l}$.	287	11.3	0.7	0.05	9.9-12.7	*8.2	-4.4
RBC $\times 10^6/\mu\text{l}$.	287	4.0	0.1	0.01	3.8-4.2	4.19	1.9
Hct%	286	35.1	2.4	0.18	30.4-39.8	35.2	0.0
MCV fl.	286	86.9	4.9	0.36	77.1-96.7	84.1	-0.6
MCH pg.	286	28.9	1.0	0.07	26.9-31.0	27.7	-1.2
MCHC gm/dl	286	33.1	2.1	0.16	28.9-37.3	33.0	0.0
Platelet $\times 10^3/\mu\text{l}$.	287	263.1	19.3	1.42	224.6-301.6	287	1.2

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

Peripheral Blood Smear(PBS):

	Your Result	Consensus Result
DLC	P-87, L-10, E-01, Mono-02	P-56.7-84.2, L-6.6-25.7, E-1.1-4.6, Mono- 1.1-4.5
Morphology	RBC-Normocytic Normochromic RBC's and occasional Microcytic Hypochromic RBC's seen. WBC- Neutrophilic Leucocytosis. Plts- Reactive thrombocytosis	Δ Thrombocytosis (208/289) Δ Normocytic/ Normochromic (184/289) Δ Leukocytosis (173/289) Δ Microcytic/Microcytosis/Microcytes (126/289) Δ Hypochromia/Hypochromic (105/289)
Diagnosis	Normocytic Normochromic Anemia with Neutrophilic Leucocytosis and reactive Thrombocytosis	Thrombocytosis/Thrombocythemia/ Essential Thrombocytosis

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

Programme Director

Dr. Bandana Mehrotra

Doc. No.: ASS/FR/06/R 01 / Dt.: 05.01.2022

End of Report

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RML
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Email: rmlresearchfoundation@gmail.com Website: www.rmlpathology.com

Continuous Efforts And Execution Leads To Quality Excellence



HEMATOLOGY

METHOD WISE REPORT

Cycle-12/2023

Round -3

Date: 30/06/2023

Lab Code: 2734

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 (± 2 SD)	Your Value	Method Wise Z Score
Hb gm/dl	Photometric	182	11.6	0.4	0.04	10.8-12.3	11.6	0.0
WBC $\times 10^3/\mu\text{l}$.	Electrical impedance	164	11.4	0.7	0.07	10.0-12.7	*8.2	-4.6
RBC $\times 10^6/\mu\text{l}$.	Electrical impedance	182	4.0	0.1	0.01	3.8-4.24	4.19	1.9
Hct%	Calculated	177	35.2	2.3	0.22	30.5-39.8	35.2	0.0
MCV fl.	Calculated	122	86.8	5.5	0.62	75.9-97.8	84.1	-0.5
MCH pg.	Calculated	184	28.8	1.0	0.09	26.9-30.8	27.7	-1.1
MCHC gm/dl	Calculated	187	33.1	2.1	0.19	29.0-37.3	33.0	0.0
Platelet $\times 10^3/\mu\text{l}$.	Electrical impedance	177	263.3	18.7	1.76	225.8-300.8	287	1.3

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: LG

Programme Director

Dr.Bandana Mehrotra

End of Report

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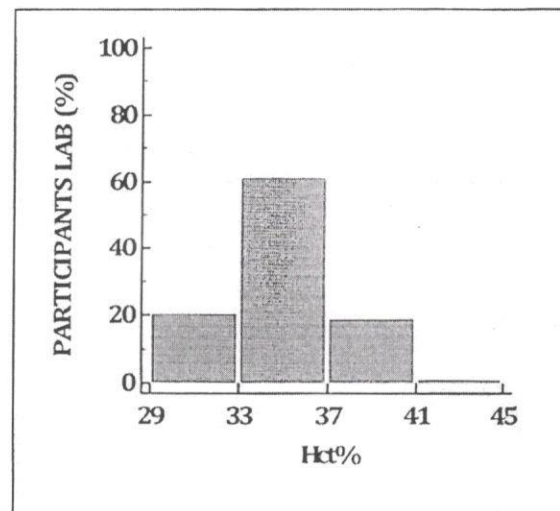
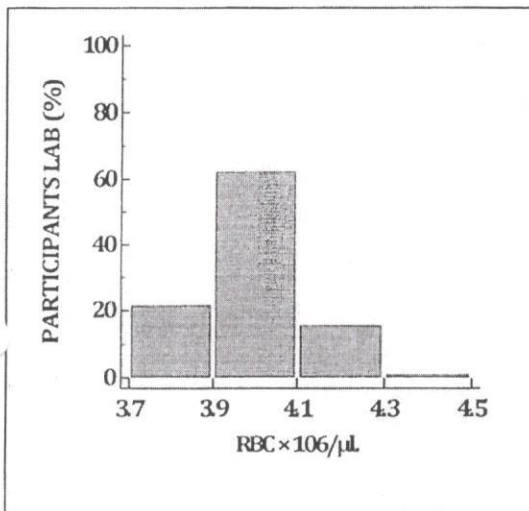
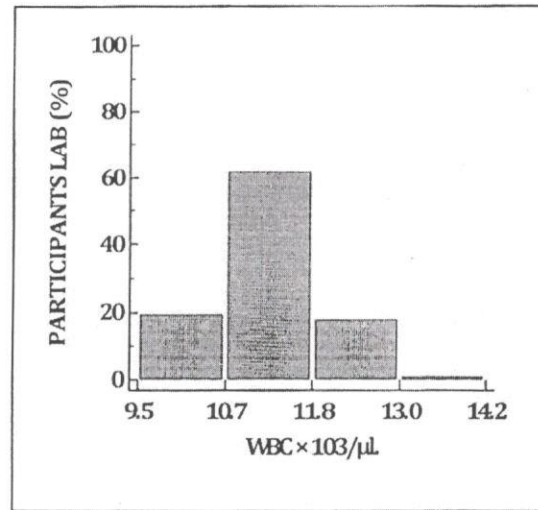
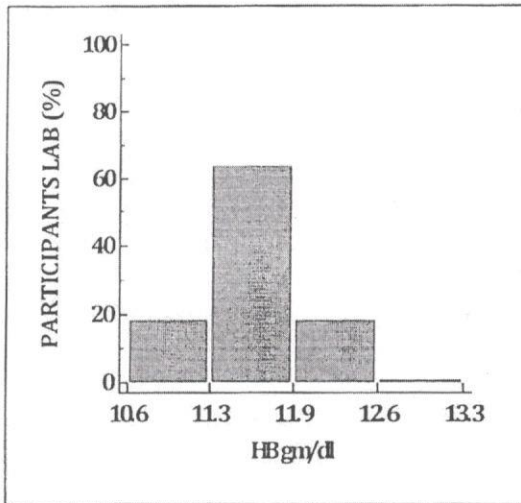


HEMATOLOGY

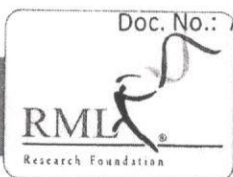
GRAPHICAL REPORT

Cycle - 12/2023
Round - 3

Date: 30/06/2023



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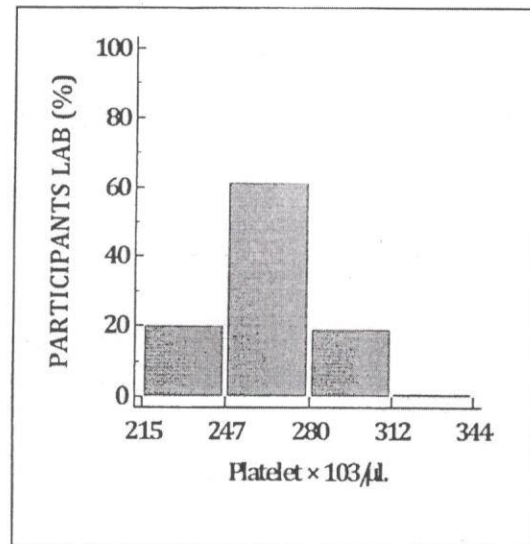
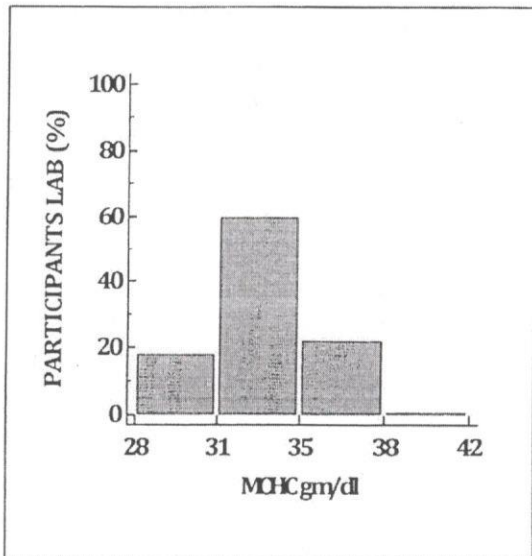
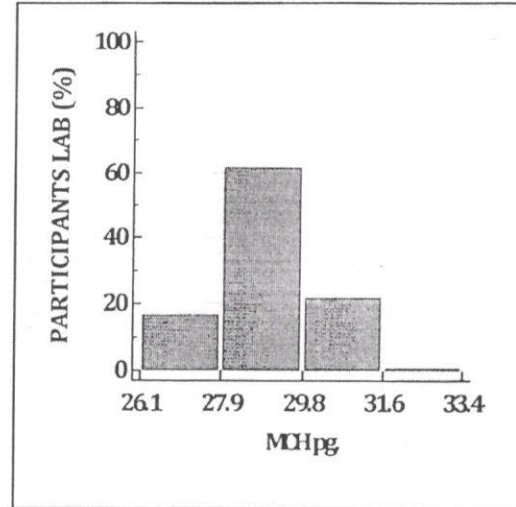
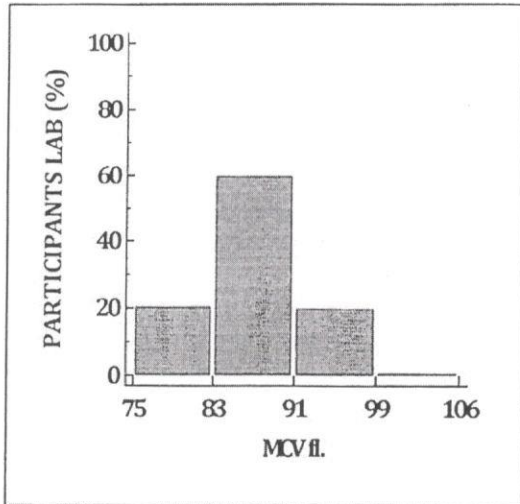


HEMATOLOGY

GRAPHICAL REPORT

Cycle - 12/2023
Round -3

Date: 30/06/2023



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Hematology

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 12/2023

Round No - 3

Date: 30/06/2023

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	378	289	34	245	10	34
WBC $\times 10^3/\mu\text{l}$.	378	287	94	180	13	94
RBC $\times 10^3/\mu\text{l}$.	378	287	43	227	17	43
HCT%	378	286	19	255	12	19
MCV fl.	378	286	9	270	7	9
MCH pg.	378	286	13	256	17	13
MCHC gm/dl	378	286	10	263	13	10
Platelet $\times 10^3/\mu\text{l}$.	378	287	20	247	20	20

****End of Report****

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IQC / EQAS Outlier Log

Department Hematology

Date/Time	Parameter	Rule violated	Corrective action	Tech Sign	Reviewed by
4/7/23	RML OAP cycle 12	2-score -4.4	Check instrument - OK Daily Ige check - OK		
	Round - 3 TLC out		Ige material - OK instrument calibration - OK	M. Webb	P. Srinivasulu
	of 2-score -4.4		PT material - OK Chemical error - NA		
			Inter Laboratory comparison to be done. Result within acceptable limit.		

Patient Name : Mr PSRINIVASRAO
 DOB/Age/Gender : 51 Y/Male
 Patient ID / UHID : 4613153/RCL4059799
 Referred By : Dr.
 Sample Type : Whole blood EDTA
 Barcode No : HT751348

Bill Date : Jul 03, 2023, 11:52 AM
 Sample Collected : Jul 03, 2023, 11:55 AM
 Sample Received : Jul 03, 2023, 02:36 PM
 Report Date : Jul 03, 2023, 03:16 PM
 Report Status : Final Report

Test Description	Value(s)	Unit(s)	Reference Range
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HEMATOLOGY REPORT
Winter Advance Care Package
Complete Blood Count (CBC)

RBC PARAMETERS

Hemoglobin Method : colorimetric	15.6	g/dL	13.0 - 17.0
RBC Count Method : Electrical impedance	5.0	10 ⁶ /μl	4.5 - 5.5
PCV Method : Calculated	48.7	%	40 - 50
MCV Method : Calculated	98	fl	83 - 101
MCH Method : Calculated	31.4	pg	27 - 32
MCHC Method : Calculated	32.0	g/dL	31.5 - 34.5
RDW (CV) Method : Calculated	13.9	%	11.6 - 14.0
RDW-SD Method : Calculated	55.5	fl	35.1 - 43.9

WBC PARAMETERS

TLC Method : Electrical impedance and microscopy	7.6	10 ³ /μl	4 - 10
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DIFFERENTIAL LEUCOCYTE COUNT

Neutrophils	40	%	40-80
Lymphocytes	50	%	20-40
Monocytes	5	%	2-10
Eosinophils	5	%	1-6
Basophils	0	%	<2

Absolute leukocyte counts

Neutrophils*	3.04
Lymphocytes*	3.8
Monocytes*	0.38
Eosinophils*	0.38
Basophils*	0

PLATELET PARAMETERS

Platelet Count Method : Electrical impedance and microscopy	256	10 ³ /μl	150 - 410
Mean Platelet Volume (MPV) Method : Calculated	9.7	fL	9.3 - 12.1
PCT	0.2	%	0.17 - 0.32



Booking Centre :- HOME COLLECTION VIJAYAWADA - F367, Hyderabad, Telangana, India
 Processing Lab :- Redcliffe Lifetech Pvt. Ltd., 1st Floor, 34-2-45 A S Rama ARO Street, Kasturibaipet, Vijayawada, Andhra Pradesh-520010

Lakshmi
 Dr. Lakshmi Kasula
 MD (Path)
 Consultant Pathologist

Patient Name : Mr PSRINIVASRAO
 DOB/Age/Gender : 51 Y/Male
 Patient ID / UHID : 4613153/RCL4059799
 Referred By : Dr.
 Sample Type : Whole blood EDTA
 Barcode No : HT751348

Bill Date : Jul 03, 2023, 11:52 AM
 Sample Collected : Jul 03, 2023, 11:55 AM
 Sample Received : Jul 03, 2023, 02:36 PM
 Report Date : Jul 03, 2023, 03:16 PM
 Report Status : Final Report

Test Description	Value(s)	Unit(s)	Reference Range
Method : Calculated PDW	14	fL	8.3 - 25.0
Method : Calculated P-LCR	38.1	%	18 - 50
Method : Calculated P-LCC	98	%	44 - 140
Method : Calculated Mentzer Index	19.6		

Interpretation:

CBC provides information about red cells, white cells and platelets. Results are useful in the diagnosis of anemia, infections, leukemias, clotting disorders and many other medical conditions.



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Lakshmi
 Dr. Lakshmi Kasula
 MD (Path)
 Consultant Pathologist

Patient Name : **Mr ILC-4613153**
 DOB/Age/Gender : 51 Y/Male
 Patient ID / UHID : 5170549/OF5170549
 Referred By : Dr.SELF
 Sample Type : Whole blood EDTA
 Barcode No : HX024709

Bill Date : July 04, 2023, 12:40 PM
 Sample Collected : July 04, 2023, 12:40 PM
 Sample Received : July 04, 2023, 12:41 PM
 Report Date : July 04, 2023, 02:28 PM
 Report Status : Final Report



Test Description	Value(s)	Unit(s)	Reference Range
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HEMATOLOGY REPORT

TLC (Total Leucocyte Count)

TLC	7.4	10 ³ /μl	4 - 10
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Method : Electrical impedance and microscopy

Interpretation:

Total leukocyte count of more 11,000/cumm (ul) is known as leukocytosis. It is seen in infections like bacterial, viral or protozoan (malaria). The degree of increase in leukocytes depend on the type and severity of the infection & response of the body. Leukocytosis is also observed in severe haemorrhage. Decrease of less than 4,000 cells / cumm (ul) is known as leukopenia. It occurs in case of infection like typhoid, megaloblastic anemia and aplastic anemia.



Dr. Islam Barkatullah Khan

Dr. Islam Barkatullah Khan
MD (Pathology)
Consultant Pathologist

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All Lab results are subject to clinical interpretation by qualified medical professional and this report is not subject to use for any medico-legal purpose.