

RML - Quality Assurance Program (RML-QAP)

Result Sheet



HAEMATOLOGY

Lab Code No. 2993

(Filled by QAP Provider)
Cycle No.: 12
Round No.: 04

Sample Receiving Date: 22/07/2023
Sample Testing Date: 23/07/2023

Dispatch Date: 18-07-2023

Last Date for Result Submission- 02-08-2023

Sample-1: COMPLETE BLOOD COUNT

This specimen is an anticoagulated whole blood specimen. Determine its CBC by your usual method which may be manual or by Autoanalyser.

Report of CBC

Method: i) Automatic ii) Manual

Note: (1) You must perform each test and report the values in the prescribed columns.

Test Parameters	Unit	Result	Instrument Name
Hb	g/dl.	1 1 . 4	Horiba - Yumizen H100
WBC	$10^3 / \mu\text{l}$.	0 0 7 . 1	Horiba - Yumizen H500
RBC	$10^6 / \mu\text{l}$.	0 4 . 0 0	"
HCT / PCV	%	3 4 . 5	"
MCV	fL.	8 6 . 3	"
MCH	Pg.	2 8 . 4	"
MCHC	g/dl	3 2 . 9	"
Platelet	$10^3 / \mu\text{l}$	3 0 0	"

Sample-2: PERIPHERAL BLOOD SMEAR

One stained alcohol fixed and air dried Peripheral smear is provided. Please report D.L.C. and comment on R.B.C. morphology and Platelet i.e. report 3-5 noticeable/ relevant features observed. Only first five RBC morphology features will be included in your assessment. Reporting of diagnosis is essential.

Clinical Summary:-

A 40 year old female presented with chief complaints of fatigue & generalized weakness since 3 months, shortness of breath with physical activity since 2 months, Chronic daily headache since 2 months. On examination - Pallor(+). Hemogram is as follows: Hb - 5.8 gm%, TLC - 7.1×10^3 cells /mm³, Platelet - 221×10^3 /mm³, RBC - 3.72×10^6 /mm³, MCV - 58.9 fL, RDW - 23.3%

Report of Blood Film

No. of cells counted 100 Blasts% _____ Promyelocytes % _____ Myelocytes % _____
Meta myelocytes % 01 Stabs % 01 Polymorphs% 58 Lymphocytes % 6
Eosinophils 2 Monocytes % 6 Basophils 0 NRBC/ 100 WBCs _____

Morphology & Other positive Findings

RBC - microcytic hypochromic target cell, elliptocyte noted
WBC - Normal in number, distribution, but neutrophils show pelger huet anomaly changes with small uni or bilobed nucleus, dense stained chromatin. Platelets noted.

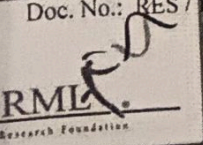
Diagnosis Note:-

Microcytic hypochromic with neutrophilic granulocytic dysplasia (pelger huet cells).

- It is mandatory to attach the machine printout along with the result.
- You are request to report the result only in above mentioned decimal point & units.
- You may also send your results through mail, to avoid any delay in result submission.

Doc. No.: RES / FR / 06 / R 01 / DL, 05.01.2022

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



Continuous Efforts And Execution Leads To Quality Excellence

RML- Quality Assurance Program (RML-QAP)



HEMATOLOGY

ALL METHOD REPORT

Cycle-12/2023

Round -4

Date: 31/08/2023

Lab Code: 2993

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	310	11.9	0.4	0.03	11.1-12.6	11.4	-1.2
WBC $\times 10^3/\mu\text{l}$	308	11.3	0.8	0.06	9.7-13.0	*7.1	-5.1
RBC $\times 10^6/\mu\text{l}$	309	4.1	0.1	0.01	3.8-4.4	4.00	-0.7
Hct%	309	36.1	2.6	0.18	31.0-41.2	34.5	-0.6
MCV fl.	308	87.7	4.9	0.35	77.9-97.5	86.3	-0.3
MCH pg.	308	28.9	1.0	0.07	26.9-30.8	28.4	-0.5
MCHC gm/dl	308	32.9	2.0	0.14	28.8-36.9	32.9	0.0
Platelet $\times 10^3/\mu\text{l}$	309	272.6	18.8	1.34	235.0-310.3	300	1.5

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	Meta-01, S-01, P-58, L-06, E-02, Mono-06	P-47.7-68.4, L-23.9-45.9, E-1-3.6, Mono- 1.5-4.7
Morphology	RBC- Microcytic Hypochromic Target cells, Elliptocyte noted. WBC- Normal in number, distribution, but neutrophils show Pelger Huet anomaly changes with small uni or bilobed. Plt noted	Δ Microcytic/Microcytosis/Microcytes (276/288) Δ Hypochromia/ Hypochromic (259/288) Δ Anisocytosis (230/288) Δ Poikilocytosis (205/288) Δ Target Cells (176/288)
Diagnosis	Microcytic Hypochromic with Neutrophilic Granulocytic Dysplasia	Microcytic Hypochromic Anemia

Legends	(*) Excluded From Group Mean	{.} Not Reported	(#) Late Result Submission	(\$) Reported in other Unit
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Chief Coordinator

Sanjay Mehrotra

Dr. Sanjay Mehrotra

Checked By:

Doc. No.: ASS / FR / 06 / R / 0 / DC: 05.01.2022

Programme Director

Bandana Mehrotra

Dr. Bandana Mehrotra

End of Report

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

Results

Sample ID **EQAS RML**
 Last Name

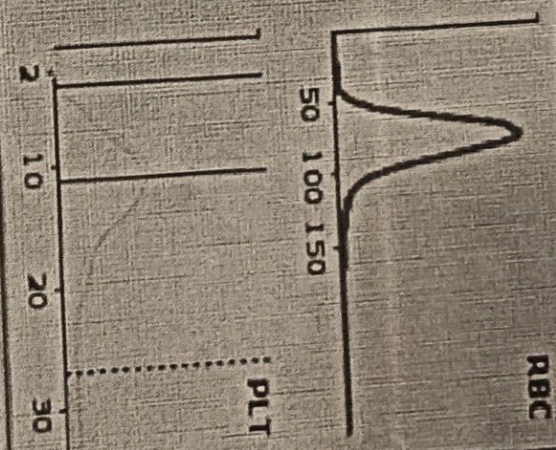
Gender
 First Name
 Age

Run Date **07/23/2023 12:15:45 PM**

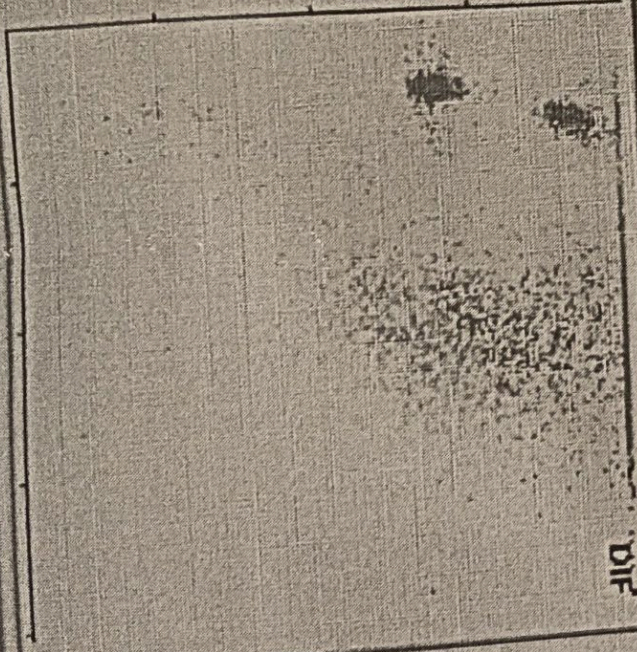
Recommended Actions

- Slide review
- Alarms
- WBC
- Background Noise
- Abnormal Differentiation
- Suspected Pathologies**
- Lymphopenia
- Eosinophilla
- Left shift

RBC	4.00	10 ⁶ /μL	PLT	300	10 ³ /μL
HGB	11.4	g/dL	PCT	0.34	%
HCT	34.5	%	MPV	11.3	f
MCV	86.3	f	PDW	18.7	f
MCH	28.4	pg	P-LCC	152	f
MCHC	32.9	g/dL	P-LCR	50.8	%
RDW-CV	14.5	%			
RDW-SD	49.9	f			



WBC	7.14	*	10 ³ /μL	%
NEU	1.80	*	25.6	f*
LYM	0.01	L*	0.1	f*
MON	0.00	f*	0.0	f*
EOS	5.20	H*	74.2	f*
BAS	0.01	*	0.1	*
LIC	0.12	f*	1.6	f*



Investigation checklist/Form

Survey information:

Survey Name	RML-OAP	Analyzer name/Model	Horiba-Yumizen HS 00
Date survey received	21-07-23	Date of analysis performed	23-7-2023
Date survey result submitted	23-7-23	Date of report receipt	
Investigation performed by		Date of evaluation	31-08-2023
Date of retesting:			
Unacceptable parameter Name:		Reported value	Repeated value
Specimen	Analyte		Intended/peer group value
RML OAP	Total Count	7.1	11-3

Root cause Analysis	Yes	No	NA
Clerical			
1. Was the results correctly transcribed from instrument readout or report?	✓		
2. Was the correct instrument /method reagent reported on the result form?	✓		
3. Does the result reported on the result form match the result found on the proficiency testing evaluation report ?	✓		
Procedural			
1. Was the written procedure followed?	✓		
2. Were the reagents within their open stability limit during analysis?	✓		
3. Were Quality Control results acceptable and without bias?	✓		
4. Were dilutions performed correctly?	✓		
Analytical			
1. Was the most recent calibration acceptable and within established limits at the time of testing?	✓		
2. Does a review of the past proficiency testing results indicate evenly distributed data without bias?	✓		
3. Was the intended result within measuring range for the instrument?	✓		
4. Was instrument maintenance performed on schedule?	✓		
5. Does a review of records indicate that there were no related instrument test problems noted prior to or after the proficiency testing as performed?	✓		
PT /EQAS material			
1. Was proficiency testing material received in the laboratory within an appropriate time after shipment?	✓		
2. Was proficiency testing material received at the appropriate temperature?	✓		
3. Were results graded in the appropriate peer group based on the method reported on the result form?	✓		

Conclusion /Summary:

Type of error

Method related		Survey evaluation problem	
Technical process related		Other (define below)	✓
Clerical			

Preventive actions (If any) *Excluded from group mean.*
 Review and approval:

Diffident 'NEOAP' Survey we started with new cycle. And we submitted E-mail verification. Since there was no appropriate group for comparison, New EQAS provider has been identified to use from next available sample.



Search mail



Compose

Inbox

Starred

Snoozed

Important

Chats

Sent

All Mail

Spam

34

Trash

Categories

More

Labels

Inbox/New folder

Link



seema inamdar

Dear Prashanth, As per our telephonic conversation ,Hope your queries are resolved. Thanks & Regards Ms.Seema Inamdar Quali



seema inamdar <s.inamdar@naalm.com>

3:07 PM (3 minut

to me, qap

Dear Prashanth,

The NeuQAP peer group evaluation report includes participants using Horiba analysers.
NeuQAP April 2024 to March 2025 cycle enrollment option will be available from March 2024.

Thanks & Regards

Ms. Seema Inamdar
Quality Manager

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