

Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)



PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY) PT SCHEME:HEMATOLOGY

Cycle No	C5
Ref.No.	NEUQAP610
Sample ID	NEUQAP HEM BLOOD/2023/10/C5/S7

Report Date: 21/02/2024

Sample: OCT 2023

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
17	Eosinophils (Automated Flowcytometry)	13	7.00	%	3.18	* 0.65	0.213	5.89	Unsatisfactory
18	Neutrophils (Automated Flowcytometry)	13	62.91	%	57.26	* 3.95	1.292	1.43	Satisfactory
19	Lymphocyte (Automated Flowcytometry)	13	25.79	%	29.65	2.32		1.66	Satisfactory
20	Monocyte (Automated Flowcytometry)	13	4.02	%	9.25	3.27		1.60	Satisfactory
21	Basophils (Automated Flowcytometry)	13	0.28	%	1.25	* 0.75	0.246	1.30	Satisfactory
22	Hematocrit (Automated Cell counter)	37	30.80	%	31.22	0.92	0.189	0.45	Good
23	TOTAL COUNT (Electrical Impedance)	4	3.74	10^3/c umm	3.99	0.51		0.48	Good
24	RBC (Electrical Impedance)	9	3.64	10^6/c umm	3.66	0.11		0.18	Good
25	MCV (Automated Calculated)	7	84.70	fl	84.70	2.26			Good
26	MCH (Automated Calculated)	18	28.80	pg	28.13	0.73	0.214	0.92	Good
27	MCHC (Automated Calculated)	9	34.10	g/dL	33.40	1.02		0.69	Good
28	HEMOGLOBIN (colorimetric)	19	10.50	g/dL	10.54	0.24	0.070	0.15	Good
29	PLATELET COUNT (Electrical Impedance)	10	218.90	10^3/c umm	222.65	26.42		0.14	Good
30	ANC (VCSn Technology)	1	2.35	10^3/c umm					N/A
31	AEC (VCSn Technology)	1	0.26	10^3/c umm					N/A

Authorised Signatory

* denotes adjusted SDPA as per ISO 13528:2015(E) SDPA - Standard Deviation for Proficiency Assessment

Technical Advisor

Shelmy

Dr. Sujay Prasad Technical Manager and Program coordinator

This report is for use only by the intended participant.

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CLUEPATH DIAGNOSTICS



INVESTIGATION FORM FOR PT / EQAS OUTLIERS

Date: 04th March 2024

Proficiency test provider: NeuQAP October 2023 Cycle

2. Proficiency test analyte: Eosinophils (%)

- Details of outlier / failure: 'Unsatisfactory' result with Z Score of 5.89. The value was reported as '7.00 %' against expected result of 3.18 ± 1.95 %.
- Investigation done, Root cause analysis and action taken:
 - a) Verified the data updated for transcriptional errors and method chosen for peer group comparison and found no errors. Retained sample could not be retested due to stability issues.
 - b) Internal QC, reagent stability, calibration stability, QC stability was found acceptable and equipment maintenance was also done as per schedule.
 - c) An inter laboratory comparison was initiated with the following results

Laboratory result	Referral lab	% Difference	Acceptable criterial	Comments
	0.6	18.18	≤20%	Acceptable

- d) Since, the inter laboratory comparison was acceptable, the deviation is considered as 'random error'
- 5. Signatures:

Lab manager / Sr. Technician:

Laboratory Director:



Patient Name:

Age / Gender: 33 years / Female

Mobile No.: 9319900388

Patient ID: 7389 Source: Dr PK JAIN Referral: Dr. Parvesh Kumar Jain

Collection Time: 23/02/2024, 07:32 p.m. Receiving Time: 23/02/2024, 07:32 p.m.

Reporting Time: 24/02/2024, 12:59 p.m.

Sample ID:



		005105424			
Test Description	Value(s)	Reference Range	Unit(S)		
	Complete H	aemogram			
Hemoglobin (Hb) Method: Cynmeth Photometric Measurement	9.6	12.0 - 15.0	gm/dL		
Erythrocyte (RBC) Count Method: Electrical Impedence	3.96	3.8 - 4.8	mil/cu.mm		
Packed Cell Volume (PCV) Method: Calculated	29.4	36 - 46	%		
Mean Cell Volume (MCV) Method: Electrical Impedence	74.24	83 - 101	fL		
Mean Cell Haemoglobin (MCH) Method : Calculated	24.24	27 - 32	pg		
Mean Corpuscular Hb Conen. (MCHC) Method: Calculated	32.65	31.5 - 34.5	gm/dL		
Red Cell Distribution Width (RDW) Method: Electrical Impedence	17.1	11.6 - 14.0	%		
Total Leucocytes (WBC) Count Method: Electrical Impedence	3990	4000-10000	cell/cu.mm		
Neutrophils Method : VCSn Technology	52.3	40 - 80	%		
ymphocytes Method: VCSn Technology	40.7	20 - 40	%		
Monocytes Method: VCSn Technology	6.3	2 - 10	%		
Cosinophils	0.5	1 - 6	% .		
Method: VCSn Technology Basophils	0.20	1-2	%		
Method : VCSn Technology Absolute Neutrophil Count Method : Calculated	2.09	2.0 - 7.0	* 10^9/L		
bsolute Lymphocyte Count Method : Calculated	1.63	1-3	* 10^9/L		
bsolute Monocyte Count Method : Calculated	0.25	0.2-1.0	* 10^9/L		
bsolute Eosinophil Count Method : Calculated	0.02	0.0-0.5	* 10^9/L		
bsolute Basophils Count Method : Calculated	0.01	1-2	* 10^9/L		
atelet Count Method: Electrical Impedence	298	150 - 410	10^3/ul		
ean Platelet Volume (MPV)	8.1	7.2 - 11.7	fL		
Method : Electrical Impedence					







PLEASE SCAN OR CODE TO VERIFY THE REPORT ONLINE

Name

Age / Gender

: 33 Years / Female

Ref.By

: GEO LAB

Req.No

: BIL3988360

TID/SID

:PUP2342960/ 27253771

Registered on: 27-Feb-2024 / 18:03 PM

Collected on : 27-Feb-2024 / 18:06 PM

Reported on : 27-Feb-2024 / 20:11 PM

Reference : Geo lab **TEST REPORT**

DEPARTMENT OF HEMATOLOGY				
Complete Blood Count (CBC), EDTA Whole Blood				
Investigation	Observed Value	Biological Reference Interval		
Hemoglobin Method:Spectrophotometry	9.3	11.5-16.0 g/dL		
Packed Cell Volume Method:Derived from Impedance	27.9	34-48 %		
Red Blood Cell Count. Method:Impedance Variation	3.74	3.8-5.4 Mill/Cumm		
Mean Corpuscular Volume Method:Derived from Impedance	74.7	78-100 fL		
Mean Corpuscular Hemoglobin Method:Derived from Impedance	24.8	27-32 pg		
Mean Corpuscular Hemoglobin Concentration Method:Derived from Impedance	33.2	31.5-36 g/dL		
Red Cell Distribution Width - CV Method:Derived from Impedance	15.3	11.0-16.0 %		
Red Cell Distribution Width - SD Method:Derived from Impedance	40.3	39-46 fL		
Total WBC Count. Method:Impedance Variation	2290	4000-11000 cells/cumm		
Neutrophils Method:Impedance Variation, Flowcytometry	23.3	40-75 %		
Lymphocytes Method:Impedance Variation, Flowcytometry	69.5	20-45 %		
Eosinophils Method:Impedance Variation, Flowcytometry	0.6	01-06 %		
Monocytes Method:Impedance Variation, Flowcytometry	4.8	01-10 %		
Basophils. Method:Impedance Variation, Flowcytometry	1.8	00-02 %		
Absolute Neutrophils Count. Method:Calculated	533.57	1500-6600 cells/cumm		
Absolute Lymphocyte Count Method:Calculated	1591.55	1500-3500 cells/cumm		
Absolute Eosinophils count. Method:Calculated	13.74	40-440 cells/cumm		