

PROFICIENCY TESTING REPORT



ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
NABL accredited program as per ISO/IEC 17043:2010 standard Organized By Department of Hematology, AIIMS, New Delhi-110029

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No.: 4437 **Distribution No.:** 159-L Month/Year: April/2023

Instrument ID: 20207

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,

Tel: 9013085730, E-Mail: accuracy2000@gmail.com Date of issue & status of the report: 13-06-2023[Final].

CBC and Retic Assessment

				Among Lab (Accuracy Testing)				Within Lab (Precision Testing)					
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty		Results	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score		
WBC x10³/μl	1	4.15	4.06	8.21	7.96	0.031	0.31	0.09	0.1	0.005	-0.11		
RBC x10 ⁶ /μl	1	4.33	4.33	8.66	8.96	0.010	-1.09	0	0.05	0.003	-1.12		
Hb g/dl	1	13.2	13.2	26.4	26.3	0.028	0.12	0	0.1	0.007	-1.15		
НСТ%	1	44.6	44.3	88.9	85.75	0.229	0.48	0.3	0.5	0.025	-0.45		
MCV-fl	1	103	102.3	205.3	190.85	0.466	0.98	0.7	0.2	0.020	1.35		
МСН-Рд	1	30.5	30.5	61	58.7	0.071	1.07	0	0.2	0.011	-0.90		
MCHC-g/dl	1	29.8	29.6	59.4	60.8	0.162	-0.30	0.2	0.3	0.016	-0.34		
Plt. x10³/μl	1	130	124	254	251.5	1.160	0.08	6	5	0.327	0.17		
Retic %	2					IF							

P.S. Assesment

YOUR REPORT			CONSENSUS REPORT				
DLC%	3	Nrbcs=, Poly= L=, E=, Mono/Promono=, B1= P.M.=, Mye=, Meta=, Other=	Lymp: 80-89, Poly: 9-15, Mono: 1-2, nRBC/blast/Eosino/Myelo/Meta: 0-1				
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis				
Diagnosis	3		Chronic Lymphocytic Leukemia (CLL)				

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3		
Test parameters		current dist. 159L		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
WBC x10³/μl	1	346	346	84.68	90.17	4.05	3.47	11.27	6.36	
RBC x10 ⁶ /μl	1	346	346	87.57	91.33	8.09	3.76	4.34	4.91	
Hb g/dl	1	346	346	90.17	89.31	5.78	6.65	4.05	4.04	
HCT%	1	346	3 <mark>46</mark>	91.91	91.04	4.91	6.65	3.18	2.31	
MCV-fl	1	346	346	93.64	91.33	3.18	4.34	3.18	4.33	
MCH-Pg	1	346	346	93.06	92.2	4.62	2.89	2.32	4.91	
MCHC-g/dl	1	346	346	92.77	90.17	5.49	3.47	1.74	6.36	
Plt. x10³/μl	1	346	346	92.49	90.17	4.91	4.05	2.6	5.78	
ReticCount%	2	346	223	92.38	91.48	7.17	2.69	0.45	5.83	
PS Assessment	3	346	212	Satisfactory :95.96%, Borderline Sat. :3.18%, Unsatisfactory :0.86%						

*Comments:

- 1). Among Lab (EQA): PS Diagnosis not reported, remaining results acceptable
- 2). Within Lab (IQA): Precision acceptable.

Note-1: EQA (External Quality Assurance): Your Performance among various of participating labs in PT, to determine the accuracy of your results.

IQA (Internal Quality Assurance): Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values – Consensus Result sum of two values)/(Normalised IQR)

Z score within lab (IQA)= (Your Result Difference of two values - Consensus Result difference of two values)/(Normalised IQR)

IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ± 2 : Acceptable, Z score ± 2 to ± 3 : Warning Signal, Z score $> \pm 3$: Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between "0 to ± 2 " are texted in green colour. Z score value between " ± 2 to ± 3 " are texted in orange colour. Z score value $> \pm 3$ are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample $(\bar{x}-\bar{y})$ should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

-----End Of Report-----

District Govt. Hospital Sehore Central Processing Lab Sewan River Square Sehore MP 466001

Check list of Investigation/Corrective Action taken for EQAS failure

A Datient and BS Diagnosis (Slide)	Month: April 20	23	
Parameter: Retic 76 and 13 Diagnosis (Shae)			
	Ves	11/	
Was the EQAS sample stored at the proper temperature following receipt		~	
Was the test reagent stored correctly in appropriate temperature	250.000		
Was both slides unbroken while received	Yes		
Analytical phase of analysis			
Was the sample at room temperature	Yes		
	Yes		
Was daily maintenance performed on the day that the EQAS sample was run			
Was IQC within an acceptable range on the day that the EQAS sample was run	Yes		
	Yes		
	Yes		
	Yes		
	No		
	William States and Sta	Was the EQAS sample stored at the proper temperature following receipt Was the test reagent stored correctly in appropriate temperature Was both slides unbroken while received Analytical phase of analysis Was the sample at room temperature Was the person running the EQAS sample was trained Was daily maintenance performed on the day that the EQAS sample was run Was IQC within an acceptable range on the day that the EQAS sample was run Post-analytical phase of analysis Was the result uploaded before the last date of submission Have the results been reported correctly (Match instrument raw data) Was the configuration correct (instrument, method and reagent)	

Note: Retic% and PS Diagnosis not reported in parameter due to the microscopy late examine, result has been assesst by two slides by the pathologist, after root cause analysis has been done as per above checklist. The first result of retic% is 8.1 and the second result is 7.4 and sum of two result 15.5.

DLC%: Nrbs=01, Poly=10.0 L=83, E=01, Mono/Promo=03, B1=02, P.M.=00, Mye=00, Meta=00, Other=00. RBC Morphology: Normocytic Normochromic Diagnosis: Chronic Lymphocytic Leukemia CLL, now the Retic% and PS Diagnosis are acceptable.



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Reviewed by:

Date: 3(-7-23

Dear Sir/Mo am.

Les can not submit subsequent PT report
because the AIIMS EQAS Specimens received quantiry.

For this reason Lab will received next subsequent PT
report in September month.