



**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. :** 4126

**Distribution No.:** 153-K

**Month/Year:** October/2021

**Instrument ID:** Sysmex xp100 A5525

**Name & Contact No. of PT Co-ordinator:** Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,  
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**Date of issue & status of the report:** 10-12-2021[Final].

**CBC and Retic Assessment**

Test Parameters	S.No.	Among Lab (Accuracy Testing)						Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10 <sup>3</sup> /µl	1	4.24	4.1	8.34	8.7	0.0440	-0.37	0.14	0.1	0.0100	0.34
RBC x10 <sup>6</sup> /µl	1	5.27	5.16	10.43	10.4	0.0130	0.09	0.11	0.05	0.0040	1.01
Hb g/dl	1	15.6	15.6	31.2	32.5	0.0460	-1.25	0	0.1	0.0100	-0.67
HCT%	1	51.7	50.6	102.3	99.6	0.2350	0.42	1.1	0.5	0.0390	1.16
MCV-fl	1	98.1	97.9	196	190.7	0.3630	0.55	0.2	0.35	0.0290	-0.29
MCH-Pg	1	30.2	29.7	59.9	62.4	0.0880	-1.20	0.5	0.25	0.0190	0.84
MCHC-g/dl	1	30.9	30.3	61.2	65.35	0.1640	-0.99	0.6	0.3	0.0210	1.01
Plt. x10 <sup>3</sup> /µl	1	138	138	276	284	1.84	-0.16	0	5	0.36	-0.87
Retic %	2	0.3	0.28	0.58	7	0.14	-1.78	0.02	0.3	0.02	-0.94

**P.S . Assesment**

YOUR REPORT			CONSENSUS REPORT		
<b>DLC%</b>	3	Nrbcs=1.00 , Poly=7.00 L=87.00, E=1.00, Mono/Promono= , B1=P.M.=4.00, Mye=, Meta=, Other=	Lymp: 85-94, Poly: 4-12, blast: 1-8, nRBC/mono/Eosino/Myelo/Meta: 0-1		
<b>RBC Morphology</b>	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis		
<b>Diagnosis</b>	3	MOST PROBABLY CHRONIC LYMPHOCYTIC LEUKEMIA	Chronic Lymphocytic Leukemia (CLL)		

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 153--K	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
<b>WBC x10<sup>3</sup>/µl</b>	1	267	267	77.9	88.01	6.74	2.25	15.36	9.74
<b>RBC x10<sup>6</sup>/µl</b>	1	267	267	91.01	86.52	6.37	7.49	2.62	5.99
<b>Hb g/dl</b>	1	267	267	88.39	61.42	7.87	32.21	3.74	6.37
<b>HCT%</b>	1	267	266	95.86	87.97	2.26	5.26	1.88	6.77
<b>MCV-fl</b>	1	267	266	94.36	95.49	4.89	2.26	0.75	2.25
<b>MCH-Pg</b>	1	267	266	88.35	89.47	7.14	3.38	4.51	7.15
<b>MCHC-g/dl</b>	1	267	266	95.49	89.85	3.38	4.14	1.13	6.01
<b>Plt. x10<sup>3</sup>/µl</b>	1	267	266	95.11	90.98	3.38	4.89	1.51	4.13
<b>ReticCount%</b>	2	267	267	95.13	84.27	2.62	1.5	2.25	14.23
<b>PS Assessment</b>	3	267	232	Satisfactory :93.14%, Borderline Sat. :0.86%, Unsatisfactory :6%					

**\*Comments:**

1). **Among Lab (EQA) : 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 > ±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 > ±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  $(x-y)$  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](http://www.ishtmaiimseqap.com).

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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