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

PC-1002

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

EQAP CODE No. : 3297 **Distribution No.:** 160 **Month/Year:** March/2023

Instrument ID: BC30(UD94000739)

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: 11-05-2023[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 x10^3/µl	1	5.6	5.5	11.1	13.6	0.109	**-1.37**	0.1	0.14	0.018	**-0.21**
RBC x10^6/µl	1	4.13	4.1	8.23	8.31	0.014	**-0.32**	0.03	0.05	0.051	**-0.39**
Hb g/dl	1	11.9	11.9	23.8	25.25	0.054	**-1.78**	0	0.1	0.014	**-0.67**
HCT%	1	40.7	40.3	81	80.1	0.318	**0.16**	0.4	0.5	0.047	**-0.19**
MCV-fl	1	98.4	98.4	196.8	193.95	0.700	**0.26**	0	0.4	0.045	**-0.90**
MCH-Pg	1	29.1	28.8	57.9	60.85	0.123	**-1.47**	0.3	0.3	0.035	**0.00**
MCHC-g/dl	1	29.6	29.3	58.9	62.9	0.249	**-0.93**	0.3	0.3	0.029	**0.00**
Plt. x10^3/µl	1	195	193	388	410.5	2.109	**-0.58**	2	6	0.656	**-0.54**
Retic %	2			0							

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Poly: 25-45, nRBC/Lymph/Mono/Eo/Pro/Blast: 0-5, Myelo: 20-40, Meta: 10-20, Baso: 0-4
RBC Morphology	3		Predominantly: Normocytic Normochromic, Anisocytosis. Moderate: Macrocytic. Mild: Microcytic
Diagnosis	3		Chronic Myeloid Leukemia-Chronic Phase [CML-CP]

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160	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
WBC $x10^3$/µl	1	114	108	87.96	91.67	5.56	1.85	6.48	6.48
RBC $x10^6$/µl	1	114	114	88.6	81.58	3.51	4.39	7.89	14.03
Hb g/dl	1	114	114	85.96	53.51	4.39	28.95	9.65	17.54
HCT%	1	114	108	94.44	87.04	4.63	3.7	0.93	9.26
MCV-fl	1	114	108	93.52	95.37	3.7		2.78	4.63
MCH-Pg	1	114	108	89.81	88.89	7.41	4.63	2.78	6.48
MCHC-g/dl	1	114	108	95.37	88.89	3.7	5.56	0.93	5.55
Plt. $x10^3$/µl	1	114	108	89.81	92.59	5.56	2.78	4.63	4.63
ReticCount%	2	114	94	89.36	84.04	5.32	4.26	5.32	11.70
PS Assessment	3	114	108	Satisfactory :82.8%, Borderline Sat. :27.2%, Unsatisfactory :0%					

*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 ($\bar{x}$-$\bar{y}$) 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,

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