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. : 3017 **Distribution No.:** 160-G **Month/Year:** June/2023

Instrument ID: TR-81000491

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: 01-08-2023[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	5.51	5.42	10.93	10.77	0.042	**0.17**	0.09	0.1	0.007	**-0.09**
RBC x10^6/µl	1	5.58	4.55	10.13	8.86	0.009	**5.11**	1.03	0.04	0.003	**26.71**
Hb g/dl	1	13.1	13	26.1	25.5	0.030	**0.81**	0.1	0.1	0.008	**0.00**
HCT%	1	39.1	38.5	77.6	81.9	0.173	**-0.97**	0.6	0.4	0.027	**0.54**
MCV-fl	1	85.3	84.6	169.9	185.1	0.307	**-1.94**	0.7	0.3	0.022	**1.08**
MCH-Pg	1	28.6	28.6	57.2	57.8	0.073	**-0.35**	0	0.2	0.019	**-0.67**
MCHC-g/dl	1	33.8	33.6	67.4	62.4	0.135	**1.45**	0.2	0.3	0.021	**-0.34**
Plt. x10^3/µl	1	90	85	175	167	1.767	**0.17**	5	5	0.308	**0.00**
Retic %	2										

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Lymp: 78-86, Poly: 8-15, Eosino: 1-3, mono: 1-2, nRBC/blast/Myelo/Meta: 0-5
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis.
Diagnosis	3		Chronic Lymphoproliferative Disorder/CLL

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--G	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	271	271	78.97	89.67	5.17	4.43	15.86	5.9
RBC $x10^6$/µl	1	271	271	88.19	86.35	6.27	7.38	5.54	6.27
Hb g/dl	1	271	271	91.88	88.56	4.8	5.17	3.32	6.27
HCT%	1	271	271	95.2	87.45	2.21	8.12	2.59	4.43
MCV-fl	1	271	271	94.83	86.72	3.32	8.12	1.85	5.16
MCH-Pg	1	271	271	88.93	88.56	6.27	5.54	4.8	5.9
MCHC-g/dl	1	271	271	92.62	87.82	5.9	4.8	1.48	7.38
Plt. $x10^3$/µl	1	271	271	95.94	88.56	1.85	5.17	2.21	6.27
ReticCount%	2	271	240	94.58	88.33	4.58	8.33	0.84	3.34
PS Assessment	3	271	240	Satisfactory :95.19%, Borderline Sat. :2.96%, Unsatisfactory :1.85%					

*Comments:

1). Among Lab (EQA) : CBC result for RBC unacceptable, may be due to random/human error.PS Diagnosis not reported, remaining results acceptable

2). Within Lab (IQA) : Difference in the CBC measurement values for RBC unacceptable, may be due to random/human error.

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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