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. : 2398 **Distribution No.:** 156-F **Month/Year:** May/2022

Instrument ID: ERBA H-360, 3 PART (K10012116054)

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: 08-08-2022[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	6.91	6.71	13.62	12.78	0.1010	**0.33**	0.2	0.11	0.0120	**0.81**
RBC x10^6/µl	1	4.98	4.83	9.81	9.41	0.0140	**1.35**	0.15	0.05	0.0040	**1.93**
Hb g/dl	1	13.4	13.2	26.6	27	0.0420	**-0.49**	0.2	0.1	0.0110	**0.67**
HCT%	1	49.3	48	97.3	84.5	0.2230	**2.24**	1.3	0.5	0.0360	**1.54**
MCV-fl	1	99.3	98.9	198.2	179.3	0.3910	**2.15**	0.4	0.2	0.0370	**0.54**
MCH-Pg	1	27.3	27	54.3	57.3	0.1040	**-1.47**	0.3	0.2	0.0230	**0.45**
MCHC-g/dl	1	27.5	27.3	54.8	63.4	0.1840	**-2.09**	0.2	0.3	0.0220	**-0.34**
Plt. x10^3/µl	1	103	102	205	255.5	2.67	**-0.66**	1	5	0.52	**-0.77**
Retic %	2	5	3	8	12.5	0.40	**-0.66**	2	0.5	0.05	**2.53**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=41 L=30, E=02, Mono/Promono=02 , B1=25 P.M.=00, Mye=00, Meta=00, Other=	Blast: 24-64, Poly: 6-18, mono:2-20 , Lympho: 8-15, Meta: 0-6, Myelo/promyelo/Eosino:0-5
RBC Morphology	3	MILD ANISOPOIKILOCYTOSIS, MICROCYTIC+, HYPOCHROMIC+	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	S/O ACUTE LEUKEMIA	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--F	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	308	307	82.08	85.02	7.82	5.86	10.1	9.12
RBC $x10^6$/µl	1	308	308	87.66	89.61	8.12	3.9	4.22	6.49
Hb g/dl	1	308	308	89.94	85.06	4.87	6.17	5.19	8.77
HCT%	1	308	307	92.18	93.81	4.56	1.63	3.26	4.56
MCV-fl	1	308	307	87.62	85.67	7.82	10.1	4.56	4.23
MCH-Pg	1	308	307	89.9	93.16	5.86	2.28	4.24	4.56
MCHC-g/dl	1	308	307	89.25	89.9	8.47	4.23	2.28	5.87
Plt. $x10^3$/µl	1	308	306	96.73	87.91	2.29	4.58	0.98	7.51
ReticCount%	2	308	278	94.6	87.77	4.32	9.35	1.08	2.88
PS Assessment	3	308	267	Satisfactory :91.31%, Borderline Sat. :0.72%, Unsatisfactory :7.97%					

*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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