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. : 5409 **Distribution No.:** 158-N **Month/Year:** February/2023

Instrument ID: IB-10156544(C4057)

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: 28-02-2023[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	7.8	7.6	15.4	14.94	0.0360	**0.51**	0.2	0.1	0.0080	**0.96**
RBC x10^6/µl	1	3.74	3.63	7.37	7.31	0.0090	**0.25**	0.11	0.04	0.0020	**1.89**
Hb g/dl	1	12.6	12.6	25.2	24.9	0.0270	**0.49**	0	0.1	0.0080	**-0.79**
HCT%	1	36.1	35.4	71.5	78.15	0.1710	**-1.26**	0.7	0.4	0.0250	**0.67**
MCV-fl	1	97.5	96.5	194	214.85	0.4180	**-1.57**	1	0.3	0.0230	**1.89**
MCH-Pg	1	34.7	33.7	68.4	68.1	0.0800	**0.14**	1	0.3	0.0220	**1.89**
MCHC-g/dl	1	35.6	34.9	70.5	63.4	0.1470	**1.59**	0.7	0.3	0.0200	**1.08**
Plt. x10^3/µl	1	204	193	397	319	1.68	**1.51**	11	5	0.32	**1.16**
Retic %	2	9	8	17	10	0.18	**1.39**	1	0.5	0.03	**0.84**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly= L=60, E=4, Mono/Promono=0 , B1=28 P.M.=, Mye=, Meta=, Other=Atypical mononuclear cells	Lympho: 49-73, Blast: 5-35, Poly:4-10, nRBC/Eos/Baso/Mono /Myelo/Meta/ Promyelo: 0-5
RBC Morphology	3	Normocytic normochromic with Mild anisocytosis	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Acute leukemia favouring Acute Lymphoblatic Leukemia	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--N	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	342	340	80	85.59	4.71	3.53	15.29	10.88
RBC $x10^6$/µl	1	342	342	88.3	90.35	6.73	3.51	4.97	6.14
Hb g/dl	1	342	342	86.55	85.96	6.73	6.73	6.72	7.31
HCT%	1	342	340	95.88	87.94	3.53	5.29	0.59	6.77
MCV-fl	1	342	340	97.35	92.35	1.76	2.35	0.89	5.3
MCH-Pg	1	342	340	86.47	88.24	8.82	6.47	4.71	5.29
MCHC-g/dl	1	342	340	95.59	90.88	3.24	4.71	1.17	4.41
Plt. $x10^3$/µl	1	342	340	95	90	3.24	3.82	1.76	6.18
ReticCount%	2	342	265	94.34	89.81	4.53	5.66	1.13	4.53
PS Assessment	3	342	244	Satisfactory :81.59%, Borderline Sat. :11.40%, Unsatisfactory :7.01%					

*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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