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. : 1465 **Distribution No.:** 156-C **Month/Year:** May/2022

Instrument ID: 909YAXH02687

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: 12-07-2022[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	3.53	3.16	6.69	41.35	0.2760	**-1.62**	0.37	0.21	0.0140	**0.54**
RBC x10^6/µl	1	4.44	4.35	8.79	8.63	0.0080	**0.71**	0.09	0.03	0.0020	**1.62**
Hb g/dl	1	12.5	12.4	24.9	26.4	0.0330	**-1.84**	0.1	0.1	0.0080	**0.00**
HCT%	1	42	41.3	83.3	83.6	0.2070	**-0.05**	0.7	0.4	0.0240	**0.81**
MCV-fl	1	94.9	94.7	189.6	194.1	0.4040	**-0.38**	0.2	0.3	0.0250	**-0.17**
MCH-Pg	1	28.5	28.2	56.7	61.1	0.0840	**-1.98**	0.3	0.2	0.0160	**0.45**
MCHC-g/dl	1	30	29.8	59.8	62.6	0.1590	**-0.61**	0.2	0.3	0.0170	**-0.34**
Plt. x10^3/µl	1	230	226	456	346	3.20	**1.09**	4	5	0.31	**-0.18**
Retic %	2	2.6	2.5	5.1	7.85	0.12	**-0.81**	0.1	0.3	0.02	**-0.90**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=15 L=18, E=00, Mono/Promono=01 , B1=64 P.M.=00, Mye=00, Meta=00, Other=00	Blast: 49-70, Lympho: 12-27 ,Poly: 9-17,/mono:1-5 nRBC/Eosino/Myelo/Meta/promyelo: 0-2
RBC Morphology	3	Anisopiokilocytosis +	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic , macrocytes, Tear drop cells
Diagnosis	3	Acute leukemia.	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--C	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	348	346	99.13	89.88	0.29	3.47	0.58	6.65
RBC $x10^6$/µl	1	348	348	91.09	90.8	4.6	3.74	4.31	5.46
Hb g/dl	1	348	348	85.92	87.93	6.61	4.6	7.47	7.47
HCT%	1	348	347	88.47	89.05	4.9	3.75	6.63	7.2
MCV-fl	1	348	347	88.47	91.93	3.75	4.61	7.78	3.46
MCH-Pg	1	348	347	87.32	87.61	5.76	6.92	6.92	5.47
MCHC-g/dl	1	348	347	91.64	86.46	4.9	4.9	3.46	8.64
Plt. $x10^3$/µl	1	348	347	95.39	91.64	3.46	3.46	1.15	4.9
ReticCount%	2	348	330	90.91	82.12	7.27	12.73	1.82	5.15
PS Assessment	3	348	327	Satisfactory :94.27%, Borderline Sat. :4.59%, Unsatisfactory :1.14%					

*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,

Dr. Seema Tyagi (Prof.)
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