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. : 3272 **Distribution No.:** 156-I **Month/Year:** June/2022

Instrument ID: PENTRA E S 60 SERIAL NO. 603PES1405Q

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: 29-08-2022[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	5.7	5.6	11.3	10.88	0.1010	**0.25**	0.1	0.1	0.0120	**0.00**
RBC x10^6/µl	1	4.55	4.4	8.95	8.86	0.0140	**0.38**	0.15	0.04	0.0040	**2.97**
Hb g/dl	1	13.1	13	26.1	25.4	0.0420	**1.05**	0.1	0.1	0.0110	**0.00**
HCT%	1	39.7	38.9	78.6	80.35	0.2230	**-0.44**	0.8	0.4	0.0360	**1.14**
MCV-fl	1	88	87	175	182.5	0.3910	**-1.07**	1	0.3	0.0370	**1.40**
MCH-Pg	1	29.6	28.9	58.5	57.35	0.1040	**0.71**	0.7	0.2	0.0230	**2.25**
MCHC-g/dl	1	33.5	33.1	66.6	62.9	0.1840	**0.99**	0.4	0.3	0.0220	**0.45**
Plt. x10^3/µl	1	249	245	494	418.5	2.67	**1.59**	4	5	0.52	**-0.17**
Retic %	2	8	7	15	10.4	0.40	**0.59**	1	0.5	0.05	**0.84**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=10 L=15, E=0, Mono/Promono=6 , B1=64 P.M.=1, Mye=2, Meta=2, Other=	Blast: 26-64, Poly: 6-19, Lympho: 8-15, mono:2-20 , Myelo:0-7 , Meta: 0-7, promyelo: 0-6, Eosino:0-1
RBC Morphology	3	Predominantly: microcytic hypochromic, Mild: Anisopoikilocytosis.	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Acute myeloid leukemia . Advice: immunophenotyping by flow cytometry for further sub-categorization.	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--I	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	138	138	87.68	83.33	5.8	2.9	6.52	13.77
RBC $x10^6$/µl	1	138	138	87.68	92.75	7.25	4.35	5.07	2.9
Hb g/dl	1	138	138	92.03	88.41	5.8	5.8	2.17	5.79
HCT%	1	138	138	89.86	90.58	7.25	5.8	2.89	3.62
MCV-fl	1	138	138	93.48	94.2	4.35	1.45	2.17	4.35
MCH-Pg	1	138	138	86.23	90.58	10.87	5.8	2.9	3.62
MCHC-g/dl	1	138	138	93.48	90.58	5.07	2.9	1.45	6.52
Plt. $x10^3$/µl	1	138	138	93.48	92.03	4.35	4.35	2.17	3.62
ReticCount%	2	138	115	96.52	89.57	0.00	6.96	3.48	3.47
PS Assessment	3	138	126	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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