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. : 1911 **Distribution No.:** 159-E **Month/Year:** January/2023

Instrument ID: TU-16001951

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: 17-04-2023[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	4.6	4.59	9.19	9.47	0.0320	**-0.37**	0.01	0.1	0.0060	**-0.81**
RBC x10^6/µl	1	4.28	4.26	8.54	8.74	0.0090	**-0.90**	0.02	0.04	0.0030	**-0.45**
Hb g/dl	1	12.8	12.7	25.5	26	0.0250	**-0.84**	0.1	0.1	0.0080	**0.00**
HCT%	1	43.4	43	86.4	81	0.1710	**1.13**	0.4	0.4	0.0250	**0.00**
MCV-fl	1	101.7	100.3	202	184.75	0.2930	**2.07**	1.4	0.3	0.0220	**2.97**
MCH-Pg	1	29.9	29.9	59.8	59.5	0.0610	**0.19**	0	0.2	0.0160	**-0.67**
MCHC-g/dl	1	29.8	29.4	59.2	64.3	0.1220	**-1.44**	0.4	0.3	0.0210	**0.34**
Plt. x10^3/µl	1	89	86	175	240	1.29	**-1.87**	3	4	0.28	**-0.22**
Retic %	2	1	0.5	1.5	7.15	0.13	**-1.56**	0.5	0.3	0.02	**0.67**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=11 L=12, E=2, Mono/Promono=1 , B1=3 P.M.=36, Mye=21, Meta=14, Other=NIL	Blast: 52-88, Lympho: 4-12, Poly:2-6, Promyelo: 0-10, nRBC/Eos/Baso/Mono /Myelo/Meta/ : 0-5
RBC Morphology	3	Microcytic Hypochromic cells	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Severe thrombocytopenia	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--E	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	307	307	82.74	94.14	6.19	2.93	11.07	2.93
RBC $x10^6$/µl	1	307	307	83.71	91.21	5.54	3.58	10.75	5.21
Hb g/dl	1	307	307	83.06	89.9	7.49	3.91	9.45	6.19
HCT%	1	307	307	93.81	89.58	2.61	4.23	3.58	6.19
MCV-fl	1	307	306	96.41	94.77	2.94	2.29	0.65	2.94
MCH-Pg	1	307	305	90.82	91.15	4.59	2.95	4.59	5.9
MCHC-g/dl	1	307	306	95.1	87.58	3.59	5.56	1.31	6.86
Plt. $x10^3$/µl	1	307	307	93.81	91.53	2.93	6.19	3.26	2.28
ReticCount%	2	307	282	92.2	93.97	6.74	1.42	1.06	4.61
PS Assessment	3	307	278	Satisfactory :95.12%, Borderline Sat. :1.95%, Unsatisfactory :2.93%					

*Comments:

1). Among Lab (EQA) : PS Diagnosis partially correct, remaining 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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