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. : 1975 **Distribution No.:** 159-E **Month/Year:** February/2023

Instrument ID: MINDRAY BC-6200 TW-9C000818

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

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	4.92	4.8	9.72	9.47	0.032	**0.32**	0.12	0.1	0.006	**0.18**
RBC x10^6/µl	1	4.42	4.41	8.83	8.74	0.009	**0.40**	0.01	0.04	0.003	**-0.67**
Hb g/dl	1	13.2	13.1	26.3	26	0.025	**0.51**	0.1	0.1	0.008	**0.00**
HCT%	1	41.7	41.7	83.4	80.95	0.171	**0.52**	0	0.4	0.025	**-1.08**
MCV-fl	1	94.6	94.5	189.1	184.7	0.293	**0.53**	0.1	0.3	0.022	**-0.54**
MCH-Pg	1	30	29.8	59.8	59.5	0.061	**0.19**	0.2	0.2	0.016	**0.00**
MCHC-g/dl	1	31.7	31.5	63.2	64.3	0.122	**-0.31**	0.2	0.3	0.021	**-0.34**
Plt. x10^3/µl	1	116	114	230	240.5	1.286	**-0.30**	2	4	0.281	**-0.45**
Retic %	2	3.2	3	6.2	7.1	0.129	**-0.25**	0.2	0.3	0.022	**-0.34**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=05 L=10, E=02, Mono/Promono=08 , B1=64 P.M.=11, Mye=0, Meta=0, Other=0	Blast: 52-88, Lympho: 4-12, Poly:2-6, Promyelo: 0-10, nRBC/Eos/Baso/Mono /Myelo/Meta/ : 0-5
RBC Morphology	3	Normocytic normochromic RBCs with few microcytic RBCs	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Acute Myeloid Leukemia	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	308	308	83.44	94.16	5.52	2.92	11.04	2.92
RBC $x10^6$/µl	1	308	308	83.77	91.23	5.52	3.57	10.71	5.2
Hb g/dl	1	308	308	82.79	89.61	7.47	4.22	9.74	6.17
HCT%	1	308	308	93.83	89.61	2.6	3.9	3.57	6.49
MCV-fl	1	308	307	96.42	94.79	2.93	1.63	0.65	3.58
MCH-Pg	1	308	306	90.85	91.18	4.58	2.94	4.57	5.88
MCHC-g/dl	1	308	307	95.44	87.62	3.26	5.54	1.3	6.84
Plt. $x10^3$/µl	1	308	308	93.18	91.23	3.25	6.17	3.57	2.6
ReticCount%	2	308	283	92.23	93.64	6.36	1.77	1.41	4.59
PS Assessment	3	308	279	Satisfactory :95.12%, Borderline Sat. :1.95%, Unsatisfactory :2.93%					

*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.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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