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. : 4076 **Distribution No.:** 162-K **Month/Year:** January/2023

Instrument ID: MINDRAY **Model Name.:** 6200 **Serial No.:** TW 93000383

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

Date of issue & status of the report: 28-03-2024[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	3.4	3.38	6.78	7	0.028	-0.31	0.02	0.1	0.006	-0.98
RBC x10^6/µl	1	4.51	4.48	8.99	8.85	0.012	0.53	0.03	0.04	0.003	-0.22
Hb g/dl	1	9.1	9	18.1	18.1	0.022	0.00	0.1	0.1	0.007	0.00
HCT%	1	28.6	28.4	57	61.4	0.125	-1.35	0.2	0.3	0.025	-0.27
MCV-fl	1	63.5	63.4	126.9	138.9	0.202	-2.49	0.1	0.3	0.023	-0.54
MCH-Pg	1	20.1	20	40.1	40.8	0.063	-0.45	0.1	0.2	0.013	-0.67
MCHC-g/dl	1	31.7	31.5	63.2	58.8	0.123	1.36	0.2	0.3	0.019	-0.34
Plt. x10^3/µl	1	207	206	413	406.5	2.119	0.12	1	7	0.493	-0.81
Retic %	2	25	23	48	21.5	0.322	3.50	2	0.5	0.042	2.53

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=5 L=9, E=2, Mono/Promono=18 , B1=21 P.M.=8, Mye=6, Meta=30, Other=	Blast: 21-86, Lympho: 3-10, Mono: 1-14, Poly: 1-6, nRBC/Eos/Baso/Myelo/Meta/ Promyelo: 0-5
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC AND NORMOCYTIC HYPOCHROMIC.	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic, poikilocytosis
Diagnosis	3	ACUTE MYELOPROLIFERETIVE DISORDER	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--K	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 $x10^3/\mu l$	1	268	267	88.76	91.76	3	4.12	8.24	4.12
RBC $x10^6/\mu l$	1	268	268	89.55	91.04	6.34	2.61	4.11	6.35
Hb g/dl	1	268	268	93.66	92.54	2.24	3.73	4.1	3.73
HCT%	1	268	266	92.48	90.6	5.26	4.14	2.26	5.26
MCV-fl	1	268	266	89.47	93.61	5.64	3.38	4.89	3.01
MCH-Pg	1	268	265	88.68	88.68	7.17	6.42	4.15	4.9
MCHC-g/dl	1	268	266	92.11	89.1	5.26	3.01	2.63	7.89
Plt. $x10^3/\mu l$	1	268	266	93.98	91.73	2.63	5.26	3.39	3.01
ReticCount%	2	268	223	87.89	83.86	10.31	11.21	1.8	4.93
PS Assessment	3	268	220	Satisfactory :95.91%, Borderline Sat. :0.74%, Unsatisfactory :3.35%					

*Comments:

1). Among Lab (EQA) : CBC result for *RETIC* unacceptable, may be due to random/human error

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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