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. : 1977 **Distribution No.:** 158-E **Month/Year:** November/2022

Instrument ID: MINDRAY BC 6200, TW-04001028

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: 24-01-2023[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	7.69	7.6	15.29	15.7	0.0450	**-0.35**	0.09	0.13	0.0080	**-0.39**
RBC x10^6/µl	1	3.43	3.43	6.86	6.92	0.0070	**-0.32**	0	0.03	0.0020	**-0.81**
Hb g/dl	1	12.5	12.4	24.9	25.1	0.0210	**-0.39**	0.1	0.1	0.0080	**0.00**
HCT%	1	40.6	40.6	81.2	78.3	0.1850	**0.54**	0	0.4	0.0250	**-1.35**
MCV-fl	1	118.3	118.2	236.5	225.75	0.5040	**0.75**	0.1	0.3	0.0230	**-0.54**
MCH-Pg	1	36.4	36.1	72.5	72.6	0.0840	**-0.05**	0.3	0.3	0.0210	**0.00**
MCHC-g/dl	1	30.8	30.5	61.3	63.75	0.1540	**-0.51**	0.3	0.3	0.0190	**0.00**
Plt. x10^3/µl	1	216	209	425	459	1.62	**-0.85**	7	5	0.35	**0.39**
Retic %	2	6.3	6.2	12.5	29	0.68	**-0.78**	0.1	1	0.07	**-0.81**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=11 L=04, E=02, Mono/Promono=03 , B1=80 P.M.=00, Mye=00, Meta=00, Other=Few ? monoblasts showing vacuolated cytoplasm and convoluted nuclei	Blast: 65-87, Poly: 5-10, Lympho: 3-8, Myelo: 0-7, Mono: 1-10.5, nRBC/Promyelo/Meta/Eos: 0-5
RBC Morphology	3	Normocytic, normochromic with macrocytes and anisocytosis	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	Acute leukemia-probably of AML-M5 to be considered.	Acute Myeloid Leukemia (AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--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	291	289	84.08	88.24	3.81	5.54	12.11	6.22
RBC $x10^6$/µl	1	291	291	88.32	93.47	7.56	2.41	4.12	4.12
Hb g/dl	1	291	291	87.97	90.38	4.12	6.53	7.91	3.09
HCT%	1	291	289	96.54	92.39	2.08	3.81	1.38	3.8
MCV-fl	1	291	288	97.92	95.14	1.39	2.08	0.69	2.78
MCH-Pg	1	291	288	87.15	87.5	8.33	7.29	4.52	5.21
MCHC-g/dl	1	291	288	96.88	86.46	2.43	6.25	0.69	7.29
Plt. $x10^3$/µl	1	291	289	89.97	92.39	7.27	2.42	2.76	5.19
ReticCount%	2	291	260	97.31	89.62	2.69	1.54	0	8.84
PS Assessment	3	291	264	Satisfactory :87.3%, Borderline Sat. :5.49%, Unsatisfactory :7.21%					

*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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PT Co-ordinator: ISHTM-AIIMS-EQAP
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