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. : 1466 **Distribution No.:** 158-D **Month/Year:** December/2022

Instrument ID: Mindray BC-3000PLUS(RJ-21110A36)

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: 11-01-2023[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 x10³/µl	1	7.1	6.9	14	13.68	0.0280	**0.48**	0.2	0.1	0.0070	**0.84**
RBC x10⁶/µl	1	5.19	5.18	10.37	10.47	0.0090	**-0.40**	0.01	0.03	0.0020	**-0.45**
Hb g/dl	1	14.4	14.3	28.4	29.1	0.0210	**-1.18**	0.1	0.1	0.0070	**0.00**
HCT%	1	43.2	42.9	86.1	90.45	0.1590	**-0.93**	0.3	0.3	0.0220	**0.00**
MCV-fl	1	83.5	82.8	166.3	173.1	0.2520	**-0.93**	0.7	0.3	0.0210	**1.35**
MCH-Pg	1	27.7	27.4	54.6	55.4	0.0440	**-0.71**	0.3	0.2	0.0140	**-0.70**
MCHC-g/dl	1	33.3	32.6	65.9	64.1	0.1070	**0.55**	0.7	0.3	0.0180	**1.35**
Plt. x10³/µl	1	118	106	224	281	1.19	**-1.75**	12	5	0.30	**1.35**
Retic %	2	16	15	31	36.5	0.72	**-0.25**	1	1	0.06	**0.00**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=21 L=77, E=01, Mono/Promono=01 , B1= P.M.=0, Mye=00, Meta=00, Other=0	Lympho: 64-73, Poly: 23-31, nRBC/mono/Eosino/Myelo/Meta/blast: 0-5
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis ,Few smudge cells seen.
Diagnosis	3	Chronic lymphocytic leukemia/small lymphocytic lymphoma	Chronic lymphoproliferative disorder

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--D	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	327	325	84.62	91.08	4.62	4.62	10.76	4.3
RBC $x10^6/\mu l$	1	327	327	88.99	90.52	5.81	3.98	5.2	5.5
Hb g/dl	1	327	327	87.16	89.91	5.81	5.81	7.03	4.28
HCT%	1	327	325	93.85	88.31	2.46	6.15	3.69	5.54
MCV-fl	1	327	325	94.15	89.54	3.69	6.15	2.16	4.31
MCH-Pg	1	327	325	91.38	89.85	3.69	5.54	4.93	4.61
MCHC-g/dl	1	327	325	96.92	91.08	1.23	4	1.85	4.92
Plt. $x10^3/\mu l$	1	327	325	90.15	90.77	7.38	6.15	2.47	3.08
ReticCount%	2	327	298	97.32	88.26	2.01	4.36	0.67	7.38
PS Assessment	3	327	291	Satisfactory :87.42%, Borderline Sat. :11.04%, Unsatisfactory :1.53%					

*Comments:

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Results acceptable.

3). 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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