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. : 3169 **Distribution No.:** 153-H **Month/Year:** September/2021

Instrument ID: 1740707210744

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: 28-10-2021[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	7.5	7.3	14.8	16	0.0960	**-0.78**	0.2	0.19	0.0210	**0.06**
RBC x10^6/µl	1	4.44	4.43	8.87	9	0.0150	**-0.67**	0.01	0.04	0.0480	**-0.67**
Hb g/dl	1	11.4	11.3	22.7	22.9	0.0390	**-0.34**	0.1	0.1	0.0130	**0.00**
HCT%	1	37.1	37	74.1	72.7	0.2750	**0.37**	0.1	0.4	0.0430	**-1.01**
MCV-fl	1	83.6	83.5	167.1	162.9	0.5310	**0.52**	0.1	0.2	0.0310	**-0.27**
MCH-Pg	1	25.7	25.5	51.2	50.8	0.1120	**0.22**	0.2	0.2	0.0280	**0.00**
MCHC-g/dl	1	30.8	30.5	61.3	62.5	0.2370	**-0.38**	0.3	0.3	0.0380	**0.00**
Plt. x10^3/µl	1	299	281	580	636	3.59	**-1.02**	18	8	0.82	**1.23**
Retic %	2	3	2.5	5.5	5.8	0.11	**-0.10**	0.5	0.4	0.02	**0.45**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=10.00 L=85.00, E=2.00, Mono/Promono=3.00 , B1= P.M.=, Mye=, Meta=, Other=0.00	Lymp: 85-94, Poly: 4-12, blast: 1-8, nRBC/mono/Eosino/Myelo/Meta: 0-1
RBC Morphology	3	Predominantly normocytic normochromic few microcytes seen	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	PBS Dindings are S/O Chronic Lymphoproliferative Disorder CLPD (?CLL),Adv - Cytochemistry,Immunophenotyping,Bone marrow examination.clinical correlation and follow up	Chronic Lymphocytic Leukemia (CLL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 153--H	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	98	97	80.41	91.75	6.19	4.12	13.4	4.13
RBC $x10^6$/µl	1	98	98	85.71	86.73	6.12	7.14	8.17	6.13
Hb g/dl	1	98	98	88.78	88.78	5.1	6.12	6.12	5.1
HCT%	1	98	97	89.69	90.72	8.25	3.09	2.06	6.19
MCV-fl	1	98	97	90.72	96.91	9.28	1.03	0	2.06
MCH-Pg	1	98	97	92.78	98.97	6.19		1.03	1.03
MCHC-g/dl	1	98	97	91.75	92.78	7.22	3.09	1.03	4.13
Plt. $x10^3$/µl	1	98	97	97.94	94.85	2.06	3.09	0	2.06
ReticCount%	2	98	75	97.33	80	0.00	16	2.67	4
PS Assessment	3	98	79	Satisfactory :87.67, Borderline Sat. :4.93, Unsatisfactory :7.40					

*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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