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. : 4592 **Distribution No.:** 156-L **Month/Year:** July/2022

Instrument ID: K11041936070

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: 27-09-2022[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	4.6	4.55	9.15	12.18	0.0990	-1.02	0.05	0.15	0.0120	-0.61
RBC x10^6/µl	1	4.17	4.17	8.34	8.69	0.0140	-0.89	0	0.05	0.0040	-0.75
Hb g/dl	1	11.5	11.5	23	24.8	0.0290	-2.21	0	0.1	0.0100	-0.45
HCT%	1	37.8	37.8	75.6	79.6	0.2150	-0.69	0	0.4	0.0290	-0.67
MCV-fl	1	90.7	90.6	181.3	183.3	0.3570	-0.20	0.1	0.4	0.0270	-0.58
MCH-Pg	1	27.6	27.5	55.1	57.3	0.0800	-1.12	0.1	0.3	0.0200	-0.67
MCHC-g/dl	1	30.4	30.3	60.7	62.4	0.1610	-0.39	0.1	0.3	0.0230	-0.54
Plt. x10^3/µl	1	159	151	310	348	1.70	-0.85	8	7	0.47	0.11
Retic %	2	1.1	1.1	2.2	3.63	0.09	-0.58	0	0.2	0.02	-0.67

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=1 L=28, E=3, Mono/Promono=0 , B1=0 P.M.=, Mye=27, Meta=17, Other=23	Poly: 32 - 50, Myelo: 14 - 28, Meta: 10 - 18, Promyelo: 2-8, Lympho: 2-7, nRBC/ /Blast/Eos/Baso/Mono: 0 - 5
RBC Morphology	3	MARKEDLY INCREASED IN NUMBER	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	MYELOPROLIFERATIVE NEOPLASM SUGGESTIVE OF CHRONIC MYELOID LEUKEMIA-CHRONIC PHASE	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--L	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	318	306	92.16	82.35	5.56	5.88	2.28	11.77
RBC x10^6/µl	1	318	318	87.11	83.65	5.35	4.4	7.54	11.95
Hb g/dl	1	318	318	87.74	84.91	3.14	5.35	9.12	9.74
HCT%	1	318	307	92.18	89.25	4.56	5.21	3.26	5.54
MCV-fl	1	318	307	91.21	91.86	5.54	3.58	3.25	4.56
MCH-Pg	1	318	307	89.25	85.67	4.89	3.58	5.86	10.75
MCHC-g/dl	1	318	307	90.88	86.97	5.86	5.21	3.26	7.82
Plt. x10^3/µl	1	318	307	91.86	92.18	5.86	2.61	2.28	5.21
ReticCount%	2	318	218	91.28	83.94	3.67	13.3	5.05	2.76
PS Assessment	3	318	216	Satisfactory :93.4%, Borderline Sat. :2.83%, Unsatisfactory :3.77%					

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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