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. : 3268 **Distribution No.:** 159-I **Month/Year:** Jun/2023

Instrument ID: RBC21066

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: 12-05-2023[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	2.8	2.8	5.6	6.39	0.076	-0.60	0	0.1	0.009	-0.96
RBC x10⁶/µl	1	3.89	3.88	7.77	7.6	0.012	0.83	0.01	0.03	0.003	-0.54
Hb g/dl	1	11.8	11.8	23.6	23.4	0.030	0.39	0	0.1	0.011	-1.35
HCT%	1	37.6	37.5	75.1	72.1	0.202	0.70	0.1	0.3	0.033	-0.45
MCV-fl	1	96.6	96.5	193.1	189	0.481	0.43	0.1	0.3	0.031	-0.54
MCH-Pg	1	30.4	30.4	60.8	61.6	0.097	-0.53	0	0.3	0.026	-1.01
MCHC-g/dl	1	31.5	31.5	63	65.5	0.184	-0.66	0	0.3	0.028	-0.81
Plt. x10³/µl	1	189	187	376	370	1.993	0.16	2	6	0.505	-0.90
Retic %	2	6	5	11	18	0.553	-0.65	1	0.6	0.063	0.67

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=68 L=5, E=0, Mono/Promono=1 , B1=1 P.M.=, Mye=20, Meta=5, Other=	Poly: 45 – 60, Myelo: 13 - 25, Meta: 7– 15, Lympho: 2– 6, Eosino: 1-2, Promyelo: 1-6, Blast: 1-4, Mono: 1 – 2, nRBC/Baso: 0-5
RBC Morphology	3	Normochromic and normocytic red cells.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Chronic myeloid leukaemia	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--I	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	148	147	83.67	88.44	5.44	5.44	10.89	6.12
RBC $x10^6/\mu l$	1	148	148	84.46	91.22	10.14	4.73	5.4	4.05
Hb g/dl	1	148	148	87.84	86.49	5.41	6.08	6.75	7.43
HCT%	1	148	147	97.28	91.84	2.04	4.76	0.68	3.4
MCV-fl	1	148	147	95.24	85.71	4.08	7.48	0.68	6.81
MCH-Pg	1	148	147	82.31	90.48	9.52	5.44	8.17	4.08
MCHC-g/dl	1	148	147	95.92	95.24	2.04	2.72	2.04	2.04
Plt. $x10^3/\mu l$	1	148	147	93.2	89.8	2.72	3.4	4.08	6.8
ReticCount%	2	148	130	96.15	83.85	2.31	12.31	1.54	3.84
PS Assessment	3	148	131	Satisfactory :95.28%, Borderline Sat. :2.02%, Unsatisfactory :2.70%					

*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,

Dr. Seema Tyagi (Prof.)
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