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. : 1861 **Distribution No.:** 157-E **Month/Year:** August/2022

Instrument ID: ELITE 580 (Serial No. K11052132009)

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: 22-10-2022[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	6.81	6.78	13.59	17.38	0.1220	**-1.21**	0.03	0.17	0.0110	**-0.94**
RBC x10^6/µl	1	5.62	5.62	11.24	10.98	0.0110	**0.88**	0	0.04	0.0030	**-0.90**
Hb g/dl	1	10.2	10.2	20.4	21.1	0.0220	**-1.18**	0	0.1	0.0070	**-1.35**
HCT%	1	36	36	72	71.3	0.1690	**0.15**	0	0.3	0.0230	**-0.81**
MCV-fl	1	64.3	64.2	128.5	129.15	0.2640	**-0.09**	0.1	0.2	0.0120	**-0.45**
MCH-Pg	1	18.2	18.1	36.3	38.5	0.0510	**-1.85**	0.1	0.1	0.0090	**0.00**
MCHC-g/dl	1	28.4	28.1	56.5	59.2	0.1610	**-0.61**	0.3	0.2	0.0130	**0.45**
Plt. x10^3/µl	1	266	256	522	465	2.38	**0.86**	10	7	0.49	**0.37**
Retic %	2	8	7	15	8.5	0.17	**1.31**	1	0.4	0.02	**2.02**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=28 L=4, E=1, Mono/Promono=0 , B1=13 P.M.=0, Mye=34, Meta=20, Other=0	Poly: 19 – 36, Myelo: 20 - 40, Meta: 9 – 20, Lympho: 2 – 6, Promyelo: 1 - 6, nRBC/ Baso/ Eos/ Mono /Blast: 0 – 5
RBC Morphology	3	Reduced RBCs density. Predominantly normocytic normochromic RBCs admixed with microcytic hypochromic RBCs.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Chronic myeloid leukemia - Accelerated Phase.	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--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	313	311	85.85	89.07	10.29	4.18	3.86	6.75
RBC $x10^6$/µl	1	313	313	87.86	90.42	5.43	3.83	6.71	5.75
Hb g/dl	1	313	313	85.94	90.73	5.11	4.47	8.95	4.8
HCT%	1	313	310	92.26	89.03	4.52	4.52	3.22	6.45
MCV-fl	1	313	310	91.94	88.39	3.87	9.03	4.19	2.58
MCH-Pg	1	313	309	85.76	91.91	5.5	4.21	8.74	3.88
MCHC-g/dl	1	313	309	91.59	91.91	5.18	4.53	3.23	3.56
Plt. $x10^3$/µl	1	313	311	94.53	87.14	4.5	6.43	0.97	6.43
ReticCount%	2	313	288	97.92	93.4	1.39	1.04	0.69	5.56
PS Assessment	3	313	289	Satisfactory :74.77%, Borderline Sat. :9.58%, Unsatisfactory :15.65%					

*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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