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. : 1582 **Distribution No.:** 155-D **Month/Year:** February/2022

Instrument ID: H-560 K11042118011

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: 27-04-2022[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	3.68	3.51	7.19	7	0.0290	**0.24**	0.17	0.1	0.0070	**0.56**
RBC x10^6/µl	1	3.83	3.81	7.64	7.33	0.0080	**1.35**	0.02	0.03	0.0020	**-0.27**
Hb g/dl	1	12.9	12.9	25.8	26.7	0.0210	**-1.52**	0	0.1	0.0070	**-0.67**
HCT%	1	43.7	43.4	87.1	84	0.1430	**0.71**	0.3	0.4	0.0230	**-0.22**
MCV-fl	1	114	113.8	227.8	227	0.2950	**0.08**	0.2	0.3	0.0250	**-0.22**
MCH-Pg	1	33.8	33.5	67.3	72.8	0.0800	**-2.56**	0.3	0.3	0.0190	**0.00**
MCHC-g/dl	1	29.7	29.4	59.1	63.65	0.1130	**-1.31**	0.3	0.3	0.0180	**0.00**
Plt. x10^3/µl	1	242	234	476	401.5	1.40	**1.97**	8	5	0.31	**0.58**
Retic %	2	5	4.6	9.6	16	0.28	**-0.93**	0.4	0.5	0.03	**-0.17**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=37 L=5, E=2, Mono/Promono=0 , B1=0 P.M.=19, Mye=20, Meta=17, Other=NIL	Poly: 40 – 60, Myelo: 10 - 25, Meta: 5 – 20, Promyelo: 1-10, nRBC/Lympho/Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	NORMOCYTIC HYPOCHROMIC	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	MYELOPROLIFERATIVE DISORDER	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--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 $x10^3$/µl	1	354	347	87.61	86.46	4.03	3.75	8.36	9.79
RBC $x10^6$/µl	1	354	354	88.98	88.7	5.08	3.67	5.94	7.63
Hb g/dl	1	354	354	84.18	84.75	5.93	5.93	9.89	9.32
HCT%	1	354	347	94.24	90.2	3.17	3.46	2.59	6.34
MCV-fl	1	354	346	96.53	89.6	1.16	3.76	2.31	6.64
MCH-Pg	1	354	347	87.9	87.61	6.63	5.76	5.47	6.63
MCHC-g/dl	1	354	347	94.81	85.3	3.75	5.19	1.44	9.51
Plt. $x10^3$/µl	1	354	347	88.76	91.64	8.36	2.88	2.88	5.48
ReticCount%	2	354	325	90.77	93.23	6.15	4.92	3.08	1.85
PS Assessment	3	354	333	Satisfactory :93.58%, Borderline Sat. :4.53%, Unsatisfactory :1.89%					

*Comments:

1). Among Lab (EQA) : PS Diagnosis partially correct, remaining 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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