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. : 4777 **Distribution No.:** 158-L **Month/Year:** January/2023

Instrument ID: yumizen 550

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: 23-02-2023[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 x10^3/µl	1	1.18	1.17	2.35	9.2	0.028	**-10.15**	0.01	0.1	0.006	**-0.81**
RBC x10^6/µl	1	4.77	4.73	9.5	9.42	0.013	**0.23**	0.04	0.05	0.003	**-0.22**
Hb g/dl	1	13.8	13.6	27.4	26.9	0.028	**0.75**	0.2	0.1	0.008	**0.67**
HCT%	1	40	39.6	79.6	85	0.240	**-0.69**	0.4	0.4	0.024	**0.00**
MCV-fl	1	83.9	83.8	167.7	183.2	0.409	**-1.16**	0.1	0.2	0.018	**-0.34**
MCH-Pg	1	28.9	28.9	57.8	57.2	0.064	**0.35**	0	0.2	0.016	**-0.90**
MCHC-g/dl	1	34.4	34.4	68.8	62.8	0.156	**1.05**	0	0.3	0.021	**-1.01**
Plt. x10^3/µl	1	221	216	437	452	1.514	**-0.34**	5	6	0.366	**-0.17**
Retic %	2	20.5	19.8	40.3	20.5	0.368	**1.78**	0.7	0.7	0.046	**0.00**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=43 L=21, E=, Mono/Promono= , B1= P.M.=01, Mye=10, Meta=25, Other=	Poly: 28 – 51, Myelo: 12 - 22, Meta: 10– 20, Lympho: 3– 10, Eosino: 1-4, Promyelo: 2-8, nRBC/Blast/Baso/Mono: 0 – 5
RBC Morphology	3	Normocytic Normochromic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3		Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--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	338	337	83.09	93.47	4.15	3.56	12.76	2.97
RBC $x10^6$/µl	1	338	338	88.17	88.76	6.51	4.44	5.32	6.8
Hb g/dl	1	338	338	86.98	84.32	5.62	6.21	7.4	9.47
HCT%	1	338	336	97.62	90.77	1.79	3.57	0.59	5.66
MCV-fl	1	338	337	99.11	85.76	0.89	3.86	0	10.38
MCH-Pg	1	338	337	91.69	89.91	4.45	5.34	3.86	4.75
MCHC-g/dl	1	338	337	98.52	88.43	0.89	5.64	0.59	5.93
Plt. $x10^3$/µl	1	338	337	95.55	88.72	3.56	5.93	0.89	5.35
ReticCount%	2	338	217	97.7	92.17	1.84	3.23	0.46	4.60
PS Assessment	3	338	212	Satisfactory :93.14%, Borderline Sat. :3.43%, Unsatisfactory :3.43%					

*Comments:

1). Among Lab (EQA) : CBC result for WBC unacceptable, may be due to random/human error.PS Diagnosis not reported, 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,

Dr. Seema Tyagi (Prof.)
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