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

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 1716 **Distribution No.:** 149-D **Month/Year:** November/2019

Instrument ID: Sysmec xs (67677)

Name & Contact No. of PT Co-ordinator: Dr. Renu Saxena (Prof & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 27-12-2019[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	3.47	3.37	6.84	7.51	0.0150	-1.61	0.1	0.1	0.0050	0.00
RBC x10^6/µl	1	3.96	3.92	7.88	8.25	0.0070	-1.74	0.04	0.03	0.0010	6.27
Hb g/dl	1	12.4	12.4	24.8	24.4	0.0130	0.77	0	0.1	0.0060	-1.35
HCT%	1	33.7	33.3	67	74.4	0.1400	-1.61	0.4	0.3	0.0170	0.34
MCV-fl	1	85.1	84.9	170	180.4	0.3040	-1.05	0.2	0.2	0.0180	0.00
MCH-Pg	1	31.6	31.3	62.9	59	0.0530	2.63	0.3	0.2	0.0110	0.45
MCHC-g/dl	1	37.2	36.8	74	65.65	0.1270	1.92	0.4	0.3	0.0110	6.34
Plt. x10^3/µl	1	165	164	329	409	1.05	-2.57	1	6	0.30	-0.96
Retic %	2	7.5	7	14.5	7.15	0.16	1.51	0.5	0.3	0.02	0.56

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=- , Poly=60% L=2%, E=4%, Mono/Promono=- , B1=2% P.M.=2%, Mye=18%, Meta=12%, Other=-	Poly: 65-75, nRBC/Lymph/Eo/Mono/blast/pro: 0-5, Myelo: 10-15, Meta: 5-12, Baso: 0-2
RBC Morphology	3	Normocytic normochromic	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Microcytic
Diagnosis	3	CMPD (Chronic Myeloproliferative Disorder)	Chronic Myeloid Leukemia (Chronic Phase) [CML-CP]

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	450	372	88.17	90.59	4.3	3.49	6.99	4.57
RBC x10^6/µl	1	450	372	92.74	87.37	5.11	6.99	1.88	4.84
Hb g/dl	1	450	372	90.05	91.67	5.38	5.65	4.3	2.42
HCT%	1	450	372	95.7	88.98	2.96	4.84	1.08	5.38
MCV-fl	1	450	372	95.7	84.41	3.23	9.41	0.54	5.65
MCH-Pg	1	450	372	91.13	73.39	5.38	19.09	2.96	6.18
MCHC-g/dl	1	450	372	97.85	88.17	1.61	4.3	0	6.45
Plt. x10^3/µl	1	450	372	91.94	91.67	6.45	2.96	1.08	5.11
ReticCount%	2	450	324	94.14	80.86	4.32	12.96	2.16	8.02
PS Assessment	3	450	345	Acceptable:97%,Warning Signal:2.2%,Unacceptable :0.8%					

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.

Report authorized by,

Dr. R. Saxena
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PT Co-ordinator: ISHTM-AIIMS-EQAP

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