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. : 1714 **Distribution No.:** 148-D **Month/Year:** August/2019

Instrument ID: RA-53001281

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: 09-10-2019[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	7.4	7.2	14.6	23.25	0.1490	-1.49	0.2	0.17	0.0760	0.19
RBC x10^6/µl	1	6.67	6.58	13.25	13	0.0130	0.68	0.09	0.05	0.0030	0.67
Hb g/dl	1	18.9	18.8	37.7	36.4	0.0340	1.35	0.1	0.1	0.0070	0.00
HCT%	1	57.9	56.8	114.7	110.5	0.1780	0.91	1.1	0.4	0.0240	1.35
MCV-fl	1	86.9	86.4	173.3	170	0.2690	0.44	0.5	0.2	0.0180	1.01
MCH-Pg	1	28.7	28.1	56.8	55.7	0.0560	0.67	0.6	0.2	0.0110	1.80
MCHC-g/dl	1	33.2	32.4	65.6	66.1	0.1150	-0.15	0.8	0.23	0.0140	1.94
Plt. x10^3/µl	1	312	305	617	544	2.32	1.09	7	7	0.44	0.00
Retic %	2	1	0	1	3.5	0.08	-0.94	1	0.2	0.01	2.70

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 - 3 /100 WBCs , Poly=70 L=12, E=03, Mono/Promono=03 , B1=02 P.M.=03, Mye=03, Meta=04, Other=Hypersegmentaion of neutrophils giant platelets seen.	Poly: 65-70, Lymph: 4-10, nRBC/Eo/Mono/Blast/Pro: 0-4, My & Meta: 3-10
RBC Morphology	3	Mild macrocytosis, mild anisocytosis.	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Macrocytic
Diagnosis	3	Leukoerythroblastic Reaction	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	367	90.19	86.38	7.36	5.18	1.63	7.36
RBC x10^6/µl	1	450	367	88.56	88.28	4.36	3.27	6.27	7.63
Hb g/dl	1	450	367	88.83	82.56	4.63	8.45	5.72	8.45
HCT%	1	450	367	88.01	91.28	4.9	3	6.27	4.36
MCV-fl	1	450	367	91.01	91.55	4.09	3.81	4.09	3.81
MCH-Pg	1	450	367	91.55	90.46	3.54	5.18	3.54	3.27
MCHC-g/dl	1	450	367	91.01	93.19	5.45	3.27	2.45	2.72
Plt. x10^3/µl	1	450	367	90.46	89.92	5.72	5.45	3	3.81
ReticCount%	2	450	297	94.28	89.23	3.37	2.36	3.03	10.1
PS Assessment	3	450	346	Acceptable:96.5%,Warning Signal:2.9%,Unacceptable :0.6%					

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,

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PT Co-ordinator: ISHTM-AIIMS-EQAP

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