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

NABL Certificate No. PC - 1002

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

EQAP CODE No. : 2896 **Distribution No.:** 149-G **Month/Year:** December/2019

Instrument ID: SYSMEX / KX-21 (Serial Number B4305)

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: 09-03-2020[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	5	5	10	10.1	0.0310	**-0.13**	0	0.1	0.0740	**-0.90**
RBC x10^6/µl	1	4.41	4.38	8.79	8.64	0.0090	**0.60**	0.03	0.04	0.0020	**-0.22**
Hb g/dl	1	12.9	12.9	25.8	26.1	0.0290	**-0.45**	0	0.1	0.0080	**-0.67**
HCT%	1	37.1	36.9	74	76.75	0.1550	**-0.69**	0.2	0.4	0.0250	**-0.54**
MCV-fl	1	84.2	84.1	168.3	177.7	0.2910	**-1.17**	0.1	0.3	0.0250	**-0.45**
MCH-Pg	1	29.5	29.3	58.8	60.5	0.0820	**-0.89**	0.2	0.3	0.0220	**-0.34**
MCHC-g/dl	1	35	34.8	69.8	68.1	0.1450	**0.44**	0.2	0.3	0.0200	**-0.34**
Plt. x10^3/µl	1	174	171	345	338	1.05	**0.27**	3	5	0.31	**-0.45**
Retic %	2	2.6	2.4	5	7	0.19	**-0.43**	0.2	0.3	0.01	**-0.45**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=9% , Poly=43%/13% L=3%, E=7%, Mono/Promono= , B1=10% P.M.=3%, Mye=7%, Meta=3%, Other=basophils-2%	Poly: 50-60, Lymph: 2-6, nRBC/Eo/Mono/Blast/Pro: 0-5, My: 10-20, Meta: 10-15
RBC Morphology	3	Predominantly normocytic normochromic along with macrocytes, macro-ovalocytes, nucleated RBCs	Predominantly: Normocytic Normochromic. Moderate: Micro. Mild: Hypo, Aniso.
Diagnosis	3	Chronic Myelogenous Leukaemia(CML) - AP	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	278	87.77	88.13	5.04	4.68	7.19	7.19
RBC x10^6/µl	1	450	278	89.21	93.88	6.12	1.8	4.68	3.6
Hb g/dl	1	450	278	84.89	88.85	8.63	6.12	6.47	5.04
HCT%	1	450	278	91.01	92.81	7.55	4.32	1.44	2.88
MCV-fl	1	450	278	94.24	93.17	3.96	3.6	1.44	2.88
MCH-Pg	1	450	278	85.97	90.29	7.91	5.76	6.12	3.6
MCHC-g/dl	1	450	278	93.53	88.85	5.4	5.76	1.08	5.4
Plt. x10^3/µl	1	450	278	88.49	91.73	6.83	5.76	4.68	2.52
ReticCount%	2	450	230	93.91	82.17	2.61	13.48	3.48	6.52
PS Assessment	3	450	254	Acceptable:95.8%,Warning Signal:3.4%,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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