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. : 5081 **Distribution No.:** 157-M **Month/Year:** October/2022

Instrument ID: SYSMEX XP 100 S.NO A9964

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: 24-11-2022[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	6	5.8	11.8	11.2	0.0290	**0.74**	0.2	0.1	0.0060	**0.96**
RBC x10^6/µl	1	3.87	3.84	7.71	7.55	0.0080	**0.74**	0.03	0.04	0.0030	**-0.22**
Hb g/dl	1	11.9	11.7	23.6	23.7	0.0270	**-0.15**	0.2	0.1	0.0080	**0.67**
HCT%	1	38.4	38.3	76.7	73.3	0.1660	**0.71**	0.1	0.4	0.0250	**-0.58**
MCV-fl	1	100	99	199	194.6	0.3960	**0.38**	1	0.3	0.0210	**2.36**
MCH-Pg	1	31.2	31	62.2	62.6	0.0840	**-0.17**	0.2	0.3	0.0200	**-0.27**
MCHC-g/dl	1	31	30.5	61.5	64.5	0.1500	**-0.71**	0.5	0.3	0.0220	**0.54**
Plt. x10^3/µl	1	158	152	310	281	1.19	**0.91**	6	4	0.28	**0.45**
Retic %	2	6.7	6.5	13.2	10.5	0.23	**0.41**	0.2	0.5	0.03	**-0.51**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=69 L=06, E=1.0, Mono/Promono=1.0 , B1= P.M.=0, Mye=09, Meta=12, Other=	Poly: 60 – 77, Myelo: 5 - 12, Meta: 5 – 10, Lympho: 3 – 7, Eos: 1- 3, nRBC/ Baso/ Promyelo, Blast Mono: 0 – 5
RBC Morphology	3	MILD ANISOCYTOSIS AND POIKILOCYTSIS	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia
Diagnosis	3	MICROCYTIC HYPOCHROMIC ANEMIA WITH LEUCOCYTOSIS AND THROMBOCYTOPENIA	Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--M	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	334	333	83.18	88.59	6.61	5.11	10.21	6.3
RBC $x10^6$/µl	1	334	334	88.62	88.92	5.09	5.69	6.29	5.39
Hb g/dl	1	334	334	86.53	85.93	5.99	6.89	7.48	7.18
HCT%	1	334	332	93.98	91.57	4.22	3.31	1.8	5.12
MCV-fl	1	334	333	95.5	90.99	3	2.4	1.5	6.61
MCH-Pg	1	334	333	90.09	85.59	5.71	7.81	4.2	6.6
MCHC-g/dl	1	334	333	93.69	91.89	3.9	2.1	2.41	6.01
Plt. $x10^3$/µl	1	334	333	91.29	91.89	5.71	4.2	3	3.91
ReticCount%	2	334	297	87.88	88.22	7.41	7.07	4.71	4.71
PS Assessment	3	334	270	Satisfactory :87.66%, Borderline Sat. :11.14%, Unsatisfactory :1.20%					

*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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