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. : 4793 **Distribution No.:** 156-L **Month/Year:** July/2022

Instrument ID: Sysmex XP100 : B6697

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: 27-09-2022[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	6.9	6.7	13.6	12.18	0.0990	**0.48**	0.2	0.15	0.0120	**0.31**
RBC x10^6/µl	1	4.47	4.38	8.85	8.69	0.0140	**0.41**	0.09	0.05	0.0040	**0.60**
Hb g/dl	1	11.7	11.7	23.4	24.8	0.0290	**-1.72**	0	0.1	0.0100	**-0.45**
HCT%	1	37.7	36.5	74.2	79.6	0.2150	**-0.93**	1.2	0.4	0.0290	**1.35**
MCV-fl	1	86.1	81.7	167.8	183.3	0.3570	**-1.54**	4.4	0.4	0.0270	**7.71**
MCH-Pg	1	26.7	26.2	52.9	57.3	0.0800	**-2.24**	0.5	0.3	0.0200	**0.67**
MCHC-g/dl	1	32.1	31	63.1	62.4	0.1610	**0.16**	1.1	0.3	0.0230	**2.16**
Plt. x10^3/µl	1	182	160	342	348	1.70	**-0.13**	22	7	0.47	**1.69**
Retic %	2	12.3	11.2	23.5	3.63	0.09	**8.00**	1.1	0.2	0.02	**3.04**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=57 L=40, E=2, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Poly: 32 – 50, Myelo: 14 - 28, Meta: 10 – 18, Promyelo: 2-8, Lympho: 2-7, nRBC/ /Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	predominantly Microcytic hypochromic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Microcytic hypochromic anaemia	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--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	318	306	92.16	82.35	5.56	5.88	2.28	11.77
RBC $x10^6$/µl	1	318	318	87.11	83.65	5.35	4.4	7.54	11.95
Hb g/dl	1	318	318	87.74	84.91	3.14	5.35	9.12	9.74
HCT%	1	318	307	92.18	89.25	4.56	5.21	3.26	5.54
MCV-fl	1	318	307	91.21	91.86	5.54	3.58	3.25	4.56
MCH-Pg	1	318	307	89.25	85.67	4.89	3.58	5.86	10.75
MCHC-g/dl	1	318	307	90.88	86.97	5.86	5.21	3.26	7.82
Plt. $x10^3$/µl	1	318	307	91.86	92.18	5.86	2.61	2.28	5.21
ReticCount%	2	318	218	91.28	83.94	3.67	13.3	5.05	2.76
PS Assessment	3	318	216	Satisfactory :93.4%, Borderline Sat. :2.83%, Unsatisfactory :3.77%					

*Comments:

1). Among Lab (EQA) : CBC result for and RETIC unacceptable, may be due to random/human error. PS Diagnosis wrongly reported, remaining results acceptable

2). Within Lab (IQA) : MCV & RETIC result is unacceptable, please check precision/human error.Remaining 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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