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. : 4126 **Distribution No.:** 152-K **Month/Year:** March/2021

Instrument ID: Sysmex xp100 A5525

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

Date of issue & status of the report: 24-05-2021[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	10.9	10.8	21.7	15.4	0.3590	0.86	0.1	0.13	0.0180	-0.18
RBC x10^6/µl	1	4	3.95	7.95	8.28	0.0130	-1.54	0.05	0.05	0.0040	0.00
Hb g/dl	1	12.1	11.9	24	23.9	0.0420	0.13	0.2	0.1	0.0110	1.35
HCT%	1	32.6	32.4	65	74.3	0.3300	-1.60	0.2	0.4	0.0370	-0.63
MCV-fl	1	82.6	82	164.6	178.7	0.5920	-1.37	0.6	0.2	0.0310	1.08
MCH-Pg	1	30.5	30.1	60.6	57.8	0.1200	1.35	0.4	0.2	0.0260	0.90
MCHC-g/dl	1	36.9	36.7	73.6	63.7	0.2690	2.05	0.2	0.2	0.0280	0.00
Plt. x10^3/µl	1	220	216	436	360	3.51	1.31	4	9	0.85	-0.56
Retic %	2	4.2	3.9	8.1	5	0.15	1.05	0.3	0.3	0.10	0.00

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=56 L=3, E=1, Mono/Promono=1 , Bl=2 P.M.=8, Myc=19, Meta=10, Other=	Poly: 30 – 65, Myelo: 10 – 35, Metas: 5 – 20, Promyelo/Blast/Lympho: 1 – 10, nRBC/Baso/Eos/Mono: 0 – 5
RBC Morphology	3	RBCs are normocytic normochromic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Hypochromia, Microcytosis; Mild: Poikilocytosis, Macrocytosis
Diagnosis	3	Chronic myeloproliferative disorder	Chronic Myeloid Leukemia (CML)

EQAP Code No.: 4126 *Distribution No.: 152-K Month/Year: March/2021 Instrument ID: Sysmex xp100 A5525*

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 x10³/µl	1	124	136	86.03	86.03	8.09	8.09	5.88	5.88
RBC x10⁶/µl	1	124	136	88.24	91.91	5.15	3.68	6.62	4.41
Hb g/dl	1	124	136	90.44	253.68	5.88	8.09	3.68	1.47
HCT%	1	124	136	93.38	91.18	5.15	2.94	1.47	5.88
MCV-fl	1	124	136	94.12	87.5	4.41	3.68	1.47	8.82
MCH-Pg	1	124	136	91.91	91.18	3.68	2.94	4.41	5.88
MCHC-g/dl	1	124	136	94.12	86.76	4.41	5.15	1.47	8.09
Plt. x10³/µl	1	124	135	90.37	87.41	5.93	5.19	3.7	7.41
ReticCount%	2	124	122	93.44	85.25	3.28	0.82	3.28	13.93
PS Assessment	3	124	124	Acceptable:92,Warning Signal:4,Unacceptable :4					

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. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

----------End Of Report----------

Next

(https://www.ishtmaiimseqap.com)

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NABL Certificate No PC-1002

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ABOUT US

In the modern medical system, a clinician is largely dependent upon laboratory and other investigations for proper treatment of a patient. It is therefore important to maintain quality in laboratory tests. This involves maintenance of accuracy and precision of test results. Participation of a laboratory in an external quality assurance program (EQAP) is essential in ascertaining the accuracy of tests. Department of Hematology,

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ISHTM-AIIMS External Quality Assurance Programme

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MY SUBMITTED REPORTS

EQAP Code	Distribution No	Distribution Section	Instrument Id	Month/Year	NO.1WBC	NO.1WBC	NO.1RBC	No.1RBC
4126	154	K	A5525	January/2022	8.3	8.1	4.43	4.42
4126	152	K	Sysmex xp100 A5525	March/2021	10.90	10.80	4.00	3.95

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