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. : 3031 **Distribution No.:** 155-G **Month/Year:** March/2022

Instrument ID: SYSMEX XP 100 A-5251

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: 11-05-2022[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	5.2	5.2	10.4	12.4	0.0660	**-1.52**	0	0.11	0.0120	**-0.62**
RBC x10^6/µl	1	4.08	4.07	8.15	8.19	0.0100	**-0.14**	0.01	0.03	0.0030	**-0.54**
Hb g/dl	1	12.4	12.3	24.7	24.4	0.0300	**0.45**	0.1	0.1	0.0080	**0.00**
HCT%	1	33.8	33.7	67.5	71.8	0.1490	**-1.19**	0.1	0.4	0.0280	**-0.81**
MCV-fl	1	82.8	82.8	165.6	176.3	0.3030	**-1.45**	0	0.4	0.0290	**-0.80**
MCH-Pg	1	30.4	30.2	60.6	59.7	0.0880	**0.42**	0.2	0.2	0.0180	**0.00**
MCHC-g/dl	1	36.7	36.5	73.2	67.4	0.1350	**1.54**	0.2	0.3	0.0240	**-0.28**
Plt. x10^3/µl	1	201	199	400	388	1.73	**0.30**	2	7	0.42	**-0.84**
Retic %	2	10	8	18	12.4	0.26	**0.83**	2	0.4	0.03	**3.60**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=50 L=02, E=-04, Mono/Promono=01 , B1=01 P.M.=01, Mye=25, Meta=15, Other=	Poly: 40 – 55, Myelo: 14 - 25, Meta: 7 – 16, Blast: 2-8, Lympho: 2-6 , Promyelo: 1-5 nRBC/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	NORMOCHROMIC NORMOCYTIC	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	MYELOPROLIFERATIVE DISORDER	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

st parameters	S.No.	Total participants covered in the current dist. 155--G	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	264	262	82.06	84.35	3.44	3.44	14.5	12.21
RBC x10^6/µl	1	264	264	90.15	88.26	4.92	5.3	4.93	6.44
Hb g/dl	1	264	264	85.98	89.39	7.95	4.17	6.07	6.44
HCT%	1	264	262	89.31	90.08	7.25	4.58	3.44	5.34
MCV-fl	1	264	262	89.69	91.98	8.02	2.29	2.29	5.73
MCH-Pg	1	264	262	89.69	90.46	6.11	4.58	4.2	4.96
MCHC-g/dl	1	264	262	94.27	89.69	4.2	4.58	1.53	5.73
Plt. x10^3/µl	1	264	261	87.74	88.51	7.66	4.21	4.6	7.28
ReticCount%	2	264	264	90.53	86.74	1.89	5.68	7.58	7.58
PS Assessment	3	264	250	Satisfactory :85.62%, Borderline Sat. :10.22%, Unsatisfactory :4.16%					

Comments:

1). Among Lab (EQA) : PS Diagnosis partially correct, remaining results acceptable

2). Within Lab (IQA) : RETIC result is unacceptable, may be due to random/human error.

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.

CoA required for Delhi.
CBC & PS Satisfactory

Report authorized by,

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

12/5/2022

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