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. : 2570 **Distribution No.:** 153-F **Month/Year:** August/2021

Instrument ID: XP-100,(B3614)

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: 09-10-2021[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	3.8	3.6	7.4	6.85	0.0220	**1.26**	0.2	0.1	0.0070	**1.17**
RBC x10^6/µl	1	5.05	5.04	10.09	10.14	0.0130	**-0.17**	0.01	0.04	0.0090	**-0.54**
Hb g/dl	1	15.6	15.6	31.2	31.3	0.0350	**-0.13**	0	0.1	0.0100	**-1.35**
HCT%	1	50	49.6	99.6	99.55	0.2970	**0.01**	0.4	0.4	0.0320	**0.00**
MCV-fl	1	99	98.4	197.4	196	0.4830	**0.12**	0.6	0.4	0.0320	**0.37**
MCH-Pg	1	31	30.9	61.9	61.9	0.0920	**0.00**	0.1	0.3	0.0190	**-0.90**
MCHC-g/dl	1	31.5	31.2	62.7	62.65	0.1920	**0.01**	0.3	0.3	0.0250	**0.00**
Plt. x10^3/µl	1	197	191	388	360	1.97	**0.67**	6	5	0.41	**0.17**
Retic %	2										

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=4 L=9, E=0, Mono/Promono=35 , B1=45 P.M.=7, Mye=0, Meta=, Other=	Blast: 25-65, Poly: 10-20, Lympho/Myelo/Promyelo/Meta/Mono: 1-15, nRBC/Eos/Baso: 0-5
RBC Morphology	3	Moderate anisocytosis,Mild poikilocytosis, Predominantly normocytic normochromic	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia, Anisocytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Acute leukaemia,possibly myelo monocytic (AMML)	Acute Myeloid Leukemia

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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	209	207	84.54	94.2	2.42	1.45	13.04	3.86
RBC x10^6/µl	1	209	208	87.5	87.02	6.73	4.33	5.77	8.65
Hb g/dl	1	209	208	88.94	85.1	3.85	0.48	7.21	10.1
HCT%	1	209	208	91.35	82.69	5.29	5.77	3.37	11.54
MCV-fl	1	209	208	95.19	89.9	3.85	2.4	0.96	7.69
MCH-Pg	1	209	208	88.46	87.98	5.77	3.85	5.77	8.17
MCHC-g/dl	1	209	208	92.31	87.98	6.25	6.25	1.44	5.77
Plt. x10^3/µl	1	209	208	91.83	87.02	4.81	5.77	3.37	7.21
ReticCount%	2	209	163	90.8	96.32	6.13	0	3.68	6.75
PS Assessment	3	209	188	Acceptable:78.3%,Warning Signal:11.4%,Unacceptable :10.3%					

***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,

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