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. : 5947 **Distribution No.:** 159-O **Month/Year:** April/2023

Instrument ID: 901PES15178

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: 10-06-2023[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 x10³/µl	1	24.6	24.4	49	51.04	0.259	-0.44	0.2	0.37	0.031	-0.57
RBC x10⁶/µl	1	5.89	5.85	11.74	11.36	0.019	1.55	0.04	0.04	0.005	0.00
Hb g/dl	1	12.1	12	24.1	24.2	0.034	-0.15	0.1	0.1	0.012	0.00
HCT%	1	44.1	43.8	87.9	83.6	0.252	1.12	0.3	0.3	0.038	0.00
MCV-fl	1	74.9	74.9	149.8	146.5	0.387	0.49	0	0.2	0.028	-0.90
MCH-Pg	1	20.6	20.4	41	42.4	0.093	-0.94	0.2	0.1	0.016	1.35
MCHC-g/dl	1	27.5	27.3	54.8	58.2	0.181	-1.07	0.2	0.2	0.024	0.00
Plt. x10³/µl	1	341	335	676	683	3.645	-0.12	6	10	1.070	-0.34
Retic %	2	3.8	3.2	7	12.5	0.250	-1.34	0.6	0.5	0.052	0.17

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=45 L=02, E=00, Mono/Promono=0 , B1=0 P.M.=03, Mye=24, Meta=05, Other=	Poly: 45 – 59, Myelo: 13 - 25, Meta: 8 – 15, Lympho: 2 – 5, Promyelo: 1 - 5, nRBC/ Baso/ Eos/ Mono /Blast: 0 – 5
RBC Morphology	3	NCNC++,ANISO+,MACRO+,HYPO+	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia
Diagnosis	3	CHRONIC MYELOID LEUKEMIA	Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--O	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 $x10^3/\mu l$	1	125	125	84.8	92	2.4	3.2	12.8	4.8
RBC $x10^6/\mu l$	1	125	125	80.8	86.4	8.8	5.6	10.4	8
Hb g/dl	1	125	125	89.6	92.8	2.4	1.6	8	5.6
HCT%	1	125	125	83.2	89.6	8	2.4	8.8	8
MCV-fl	1	125	125	88.8	97.6	5.6	0.8	5.6	1.6
MCH-Pg	1	125	125	91.2	91.2	3.2	7.2	5.6	1.6
MCHC-g/dl	1	125	125	90.4	87.2	2.4	8	7.2	4.8
Plt. $x10^3/\mu l$	1	125	125	91.2	93.6	7.2	4.8	1.6	1.6
ReticCount%	2	125	112	89.29	94.64	8.04	6.25	2.67	-0.89
PS Assessment	3	125	116	Satisfactory :93.56%, Borderline Sat. :3.22%, Unsatisfactory :3.22%					

*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.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Seema Tyagi (Prof.)
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