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. : 3188 **Distribution No.:** 159-H **Month/Year:** March/2023

Instrument ID: MODEL-Z3 (SERIAL NUMBER - 23220307769)

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: 12-05-2023[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 x10^3/µl	1	3.24	3.21	6.45	6.84	0.093	-0.23	0.03	0.1	0.010	-0.58
RBC x10^6/µl	1	3.9	3.8	7.7	7.62	0.010	0.51	0.1	0.03	0.003	2.36
Hb g/dl	1	12.2	12.1	24.3	23.32	0.030	1.89	0.1	0.1	0.010	0.00
HCT%	1	38.4	37.6	76	71.6	0.198	1.15	0.8	0.3	0.030	1.69
MCV-fl	1	98.4	98.4	196.8	188.7	0.450	0.88	0	0.3	0.030	-0.95
MCH-Pg	1	31.6	31.4	63	61.3	0.094	1.03	0.2	0.3	0.019	-0.34
MCHC-g/dl	1	32.1	31.8	63.9	64.75	0.191	-0.26	0.3	0.2	0.027	0.34
Plt. x10^3/µl	1	216	212	428	373.5	1.800	1.62	4	5	0.538	-0.15
Retic %	2	3	2.4	5.4	21	0.605	-1.31	0.6	0.7	0.071	-0.17

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=3 , Poly=40 L=55, E=03, Mono/Promono=02 , B1=0 P.M.=0, Mye=0, Meta=0, Other=0	Poly: 58-68, Lympho: 25-34, Mono: 2-5, Eosino: 1-2, blast/Promyelo/Myelo/Meta: 0-5
RBC Morphology	3	RBC Shows anisocytosis poikilocytosis ana hypochromia 3 nucleated RBC /100 wbc seen.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Poikilocytosis , Target cells , Sickle shaped cells ,tear drop cells
Diagnosis	3	haemolytic anaemia (thalassaemia)	Thalassemia/Haemoglobinopathy

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--H	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	149	148	81.08	85.14	8.11	6.08	10.81	8.78
RBC $x10^6/\mu l$	1	149	149	88.59	93.96	6.71	2.68	4.7	3.36
Hb g/dl	1	149	149	87.92	91.95	6.71	5.37	5.37	2.68
HCT%	1	149	148	95.95	89.19	3.38	6.08	0.67	4.73
MCV-fl	1	149	148	96.62	93.92	2.7	2.7	0.68	3.38
MCH-Pg	1	149	148	91.22	91.22	5.41	4.05	3.37	4.73
MCHC-g/dl	1	149	148	94.59	89.19	4.05	4.73	1.36	6.08
Plt. $x10^3/\mu l$	1	149	148	93.24	90.54	6.08	4.73	0.68	4.73
ReticCount%	2	149	117	95.73	95.73	3.42	0.85	0.85	3.42
PS Assessment	3	149	119	Satisfactory :92.62%, Borderline Sat. :6.71%, Unsatisfactory :0.67%					

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,

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