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. : 289 **Distribution No.:** 158-A **Month/Year:** October/2022

Instrument ID: BC 6200 (TW-04001042)

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: 21-12-2022[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	7.84	7.59	15.43	14.5	0.0300	**1.07**	0.25	0.1	0.0070	**1.35**
RBC x10^6/µl	1	4.39	4.31	8.7	8.5	0.0070	**1.07**	0.08	0.03	0.0020	**1.69**
Hb g/dl	1	13.2	13.1	26.3	25.1	0.0200	**2.02**	0.1	0.1	0.0070	**0.00**
HCT%	1	45.1	44.3	89.4	79.6	0.1720	**1.69**	0.8	0.3	0.0060	**1.69**
MCV-fl	1	102.6	102.6	205.2	188	0.3400	**1.38**	0	0.2	0.0180	**-0.67**
MCH-Pg	1	30.3	30.1	60.4	59.2	0.6740	**0.89**	0.2	0.2	0.0130	**0.00**
MCHC-g/dl	1	29.5	29.3	58.8	62.7	0.1290	**-0.87**	0.2	0.2	0.0150	**0.00**
Plt. x10^3/µl	1	240	239	479	503	1.50	**-0.56**	1	6	0.31	**-0.96**
Retic %	2	3.8	3.6	7.4	15.8	0.26	**-1.12**	0.2	0.4	0.02	**-0.34**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=5 , Poly=67 L=24, E=4, Mono/Promono=5 , B1=0 P.M.=0, Mye=0, Meta=0, Other=0	Lympho: 37-47, Poly: 44-54, Mono: 2-5, Eosino: 1-5, blast/Promyelo/Myelo/Meta: 0
RBC Morphology	3	Microcytic hypochromic RBC with Anisocytosis poly chromatophilic .target cells seen	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Poikilocytosis , Target cells , Sickle shaped cells ,tear drop cells
Diagnosis	3	correlation with clinical features,hemato morphological features suggestive of hemolytic anemia possibility of thalassemia correlate with HB Electrophoresis	Diagnosis- Haemoglobinopathy/Thalassemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--A	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	362	356	84.55	85.39	4.21	7.3	11.24	7.31
RBC $x10^6$/µl	1	362	362	84.25	90.61	8.56	3.59	7.19	5.8
Hb g/dl	1	362	362	87.85	91.71	4.97	2.49	7.18	5.8
HCT%	1	362	357	98.04	86.27	0.84	6.72	1.12	7.01
MCV-fl	1	362	357	99.44	87.11	0.28	9.52	0.28	3.37
MCH-Pg	1	362	357	87.96	92.44	5.6	2.52	6.44	5.04
MCHC-g/dl	1	362	357	97.2	93	1.12	3.08	1.68	3.92
Plt. $x10^3$/µl	1	362	357	92.16	90.2	5.32	5.88	2.52	3.92
ReticCount%	2	362	340	93.53	93.24	4.12	5	2.35	1.76
PS Assessment	3	362	339	Satisfactory :96.68%, Borderline Sat. :2.76%, Unsatisfactory :0.552%					

*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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