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. : 2913 **Distribution No.:** 159-G **Month/Year:** March/2023

Instrument ID: MindrayBC5150

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: 01-05-2023[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	4.17	3.99	8.16	8.21	0.0460	**-0.04**	0.18	0.1	0.0070	**0.72**
RBC x10^6/µl	1	4.19	4.12	8.31	8.8	0.0100	**-2.49**	0.07	0.04	0.0030	**0.81**
Hb g/dl	1	12.8	12.8	25.6	25.9	0.0240	**-0.48**	0	0.1	0.0080	**-1.35**
HCT%	1	40.4	39.8	80.2	80.5	0.1800	**-0.07**	0.6	0.3	0.0270	**0.81**
MCV-fl	1	96.5	96.3	192.8	183.65	0.2900	**1.18**	0.2	0.3	0.0250	**-0.27**
MCH-Pg	1	31.1	30.5	61.6	59	0.0730	**1.52**	0.6	0.2	0.0170	**1.80**
MCHC-g/dl	1	32.2	31.7	63.9	64.05	0.1360	**-0.04**	0.5	0.3	0.0200	**0.67**
Plt. x10^3/µl	1	144	143	287	293	1.46	**-0.16**	1	4.5	0.34	**-0.67**
Retic %	2	2.5	1.5	4	8.15	0.19	**-0.89**	1	0.4	0.03	**2.31**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=53 , Poly=77 L=20, E=01, Mono/Promono=02 , B1=00 P.M.=00, Mye=00, Meta=00, Other=Platelets Reduced on smear, Giant Platelets - Occasional , Large Platelets - Present (+) .	Poly: 55-66, Lympho: 24-34, Mono: 1-4, Eosino: 1-3, blast/Promyelo/Myelo/Meta: 0-5
RBC Morphology	3	Macrocytosis (++) ,Anisocytosis (++), Poikilocytosis (+++), Polychromisa (+), Tear drop Cells - Occasional , Schistocytes - Occasional .	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Poikilocytosis , Target cells , Sickle shaped cells ,tear drop cells
Diagnosis	3	Hemolytic Anemia with thrombocytopenia & Neutrophilic leukocytosis.	Thalassemia/Haemoglobinopathy

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--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	248	248	87.5	88.31	4.44	3.63	8.06	8.06
RBC $x10^6$/µl	1	248	248	79.84	87.9	10.48	6.05	9.68	6.05
Hb g/dl	1	248	248	88.71	92.34	4.84	3.63	6.45	4.03
HCT%	1	248	248	94.35	89.92	4.44	4.84	1.21	5.24
MCV-fl	1	248	248	96.77	91.53	2.42	3.23	0.81	5.24
MCH-Pg	1	248	247	91.9	94.74	6.07	0.4	2.03	4.86
MCHC-g/dl	1	248	248	94.76	90.73	4.84	2.82	0.4	6.45
Plt. $x10^3$/µl	1	248	248	92.74	93.95	5.24	4.03	2.02	2.02
ReticCount%	2	248	216	91.2	84.26	5.56	9.26	3.24	6.48
PS Assessment	3	248	218	Satisfactory :90.74%, Borderline Sat. :8.06%, Unsatisfactory :1.20%					

*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.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
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