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

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 2661 **Distribution No.:** 164-E **Month/Year:** June/2024
Instrument ID: SYSMEX **Model Name.:** XP-100 **Serial No.:** A9675
Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
Tel: 9013085730 , E-Mail : info@ishtmaiimseqap.com
Date of issue & status of the report: 05-08-2024[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	5.3	5.1	10.4	28.25	0.639	**-0.83**	0.2	0.3	0.021	**-0.25**
RBC x10^6/µl	1	4.98	4.95	9.93	9.7	0.011	**0.78**	0.03	0.04	0.003	**-0.19**
Hb g/dl	1	12.8	12.7	25.5	27.6	0.029	-2.60	0.1	0.1	0.008	**0.00**
HCT%	1	40.1	39.7	79.8	86.85	0.235	**-1.03**	0.4	0.4	0.025	**0.00**
MCV-fl	1	80.5	80.2	160.7	178.8	0.448	**-1.54**	0.3	0.3	0.023	**0.00**
MCH-Pg	1	25.9	25.5	51.4	56.9	0.082	-2.56	0.4	0.3	0.013	**0.34**
MCHC-g/dl	1	32.2	31.7	63.9	63.5	0.181	**0.08**	0.5	0.3	0.022	**0.54**
Plt. x10^3/µl	1	129	122	251	175	2.475	**1.04**	7	5	0.342	**0.34**
Retic %	2	0.91	0.68	1.59	21.6	0.244	-2.90	0.23	0.7	0.047	**-0.49**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=16 , Poly=39 L=14, E=4, Mono/Promono=8 , B1=14 P.M.=1, Mye=1, Meta=3, Other=	Poly: 53-64, Lympho: 28-38, Eosino: 1-3, Mono: 2-5, blast/Promyelo/Myelo/Meta: 0-5
RBC Morphology	3	MODERATE POIKILOCYTOSIS.CELLS ARE MICROCYTIC AND MACROCYTIC WITH TEAR DROP CELLS,TARGET CELLS.	Predominantly: Microcytic, Hypochromic, Moderate: Anisopoikilocytosis Mild:Target cells , Tear drop cells
Diagnosis	3	ACUTE MYELOCYTIC LEUMIA.	Thalassemia Hemoglobinopathy

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AMB81870
07/10/2024

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--E	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	329	325	84	85.85	3.69	6.46	12.31	7.69
RBC x10^6/µl	1	329	329	87.54	92.1	7.9	3.95	4.56	3.95
Hb g/dl	1	329	329	88.15	82.37	5.47	8.81	6.38	8.82
HCT%	1	329	326	95.09	90.18	2.45	5.21	2.46	4.61
MCV-fl	1	329	325	91.38	94.46	5.54	2.15	3.08	3.39
MCH-Pg	1	329	325	88.31	93.23	5.54	4	6.15	2.77
MCHC-g/dl	1	329	325	92.92	92.62	4.31	2.77	2.77	4.61
Plt. x10^3/µl	1	329	327	92.97	88.38	3.06	5.2	3.97	6.42
ReticCount%	2	329	289	87.89	95.5	10.03	2.42	2.08	2.08
PS Assessment	3	329	290	Satisfactory :95.75%, Borderline Sat. :1.82%, Unsatisfactory :2.43%					

Comments:

1). Among Lab (EQA) : **PS Diagnosis wrongly reported, remaining 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. Manoranjan Mahapatra (Prof. & Head)
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