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. : 4741 **Distribution No.:** 164-L **Month/Year:** July/2024

Instrument ID: Nihon Khoden **Model Name.:** MEK-1305K **Serial No.:** 0897

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: 19-09-2024 [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	4.95	4.82	9.77	10.53	0.040	**-0.74**	0.13	0.1	0.007	**0.25**
RBC x10^6/µl	1	4.52	4.49	9.01	8.65	0.013	**1.18**	0.03	0.04	0.003	**-0.22**
Hb g/dl	1	12.48	12.31	24.79	24.1	0.028	**0.93**	0.17	0.1	0.008	**0.50**
HCT%	1	42.7	42.4	85.1	78.5	0.200	**1.17**	0.3	0.4	0.024	**-0.27**
MCV-fl	1	94.5	94.4	188.9	181.7	0.384	**0.67**	0.1	0.3	0.020	**-0.54**
MCH-Pg	1	27.6	27.4	55	55.7	0.063	**-0.43**	0.2	0.2	0.015	**0.00**
MCHC-g/dl	1	29.2	29	58.2	61.3	0.155	**-0.75**	0.2	0.2	0.016	**0.00**
Plt. x10^3/µl	1	158	149	307	459	1.850	**-2.89**	9	6	0.385	**0.43**
Retic %	2	0.6	0.4	1	5.8	0.150	**-1.08**	0.2	0.4	0.023	**-0.54**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=35 L=64, E=01, Mono/Promono=0 , B1=0 P.M.=0, Mye=0, Meta=0, Other=0	Lymp: 62 - 75, Poly: 20 - 31, Mono: 1-3, Eosino: 1-2, nRBC/blast/Promyelo/Myelo/Meta: 0-5
RBC Morphology	3	NORMOCYTIC NORMOCYTIC	RBCs are normocytic and normochromic. *Smudge cells* are present, indicating a possible chronic lymphoproliferative disorder.
Diagnosis	3	LYMPOPROLIFERATIVE DISEASE SUGGESTIVE OF CHRONIC LYMPHOCYTIC LEUKAEMIA	Chronic Lymphoproliferative Disorder (CLPD)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--L	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	316	315	80.95	88.89	5.08	2.86	13.97	8.25
RBC x10^6/µl	1	316	316	86.08	89.87	7.59	5.06	6.33	5.07
Hb g/dl	1	316	316	87.03	88.92	6.96	4.11	6.01	6.97
HCT%	1	316	315	93.33	89.52	3.81	4.76	2.86	5.72
MCV-fl	1	316	315	93.33	85.4	5.4	6.35	1.27	8.25
MCH-Pg	1	316	315	88.25	74.29	5.71	21.59	6.04	4.12
MCHC-g/dl	1	316	315	92.7	90.79	5.71	2.54	1.59	6.67
Plt. x10^3/µl	1	316	315	90.79	91.43	5.4	4.44	3.81	4.13
ReticCount%	2	316	188	92.55	96.28	4.79	0.53	2.66	3.19
PS Assessment	3	316	182	Satisfactory :97.48%, Borderline Sat. :0.63%, Unsatisfactory :1.89%					

***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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