DLS DIAGNOSTIC LABORATORY SERVICES

CORRECTIVE AND PERMANENT ACTION REPORT

Ma	nagement Review by	Dr. Suvarna Jawa	ale								
Department		Complaint Date / Time:	Revision Date(s)		Location:						
	Laboratory 23/01/2023 24/01/2023			2023	lab						
	Root Cause Analysis										
CBC ro Param	•	able in PT repo	ert & may be du	/human error- MCH is calculeted as per Methodology for Applied							
	Corrective And Preven	tive And Preventive Actions [CAPA]									
N0.	Action Item		Date issued	Date Due	Date Completed						
	training provided to technician to avoied human error Calculeted & checked		24/01/2023		24/01/2023	Report within range					

Administrator Sign



Authorised Signatory



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. : 2398

Distribution No.: 158-F Month/Year: December/2022

Instrument ID: ERBA H-360, 3 PART (K10012116054

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 23-01-2023[Final].

CBC and Retic Assessment

				Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Deculto		Uncertainty of Assigned Values	Z Score
WBC x10³/µl	1	9.7	9.53	19.23	18.2	0.0730	0.49	0.17	0.12	0.0090	0.61
RBC x10 ⁶ /µl	1	4.81	4.77	9.58	9.11	0.0100	1.92	0.04	0.04	0.0030	0.00
Hb g/dl	1	12.5	12.4	24.9	25.8	0.0220	-1.73	0.1	0.1	0.0080	0.00
HCT%	1	45	44. <mark>9</mark>	89.9	84.35	0.2260	0.93	0.1	0.4	0.0260	-0.81
MCV-fl	1	94.3	93.4	187.7	185.4	0.4410	0.18	0.9	0.2	0.0210	2.36
MCH-Pg	1	26.1	26	52.1	56.4	0.0550	-3.22	0.1	0.2	0.0140	-0.45
MCHC-g/dl	1	27.8	27.7	55.5	60.7	0.1560	-1.11	0.1	0.2	0.0160	-0.45
Plt. x10³/µl	1	206	191	397	373	1.71	0.52	15	5	0.32	1.93
Retic %	2	15	13	28	27	0.63	0.06	2	1	0.06	0.79

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT					
DLC%	3		Poly: 49 - 67, Myelo: 10 - 19, Meta: 6- 14, Lympho: 2- 6, Eosino: 0-2, Promyelo: 1-5, nRBC/Blast/Baso/Mono: 0 - 5					
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis					
Diagnosis	3	S/O CHRONIC MYELOID LEUKEMIA	Chronic Myeloid Leukemia (Chronic Phase)					

Page 2 of 2

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test never store	S No	Total participants covered in the	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3		
Test parameters	5.NU.	current dist. 158F		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
WBC x10 ³ /µl	1	296	295	<mark>87</mark> .46	88.81	5.42	5.08	7.12	6.11	
RBC x10 ⁶ /µl	1	296	296	83.78	92.23	9.46	3.38	6.76	4.39	
Hb g/dl	1	296	296	82.77	89.53	8.45	6.08	8.78	4.39	
HCT%	1	296	2 <mark>94</mark>	95.92	94.22	3.06	2.04	1.02	3.74	
MCV-fl	1	296	294	97.62	93.2	1.7	2.04	0.68	4.76	
MCH-Pg	1	296	294	85.03	<mark>91</mark> .16	7.14	3.4	7.83	5.44	
MCHC-g/dl	1	296	294	97.28	<mark>92.8</mark> 6	1.36	3.74	1.36	3.4	
Plt. x10³/µl	1	296	294	94.22	91.84	4.76	4.42	1.02	3.74	
ReticCount%	2	296	265	92.83	93.58	4.53	2.64	2.64	3.78	
PS Assessment	3	296	265	Satisfactory :92.21%, Borderline Sat. :3.05%, Unsatisfactory :4.74%						

*Comments:

1). Among Lab (EQA) : CBC result for MCH unacceptable, may be due to random/human error

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 guarterly 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,

Jege-

Dr. Seema Tyagi (Prof.) PT Co-ordinator: ISHTM-AIIMS-EQAP Department of Hematology, AIIMS, New Delhi

-----End Of Report-----