



**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. : 3104

Distribution No.: 149-H

Month/Year: November/2019

Instrument ID: DXH 500 ( BB020119 )

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

Date of issue &amp; status of the report: 11-12-2019[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 <sup>3</sup> /µl	1	15.93	15.93	31.86	11.25	0.1350	<b>13.30</b>	0	0.11	0.0210	<b>-0.74</b>
RBC x10 <sup>6</sup> /µl	1	3.3	3.28	6.58	10.05	0.0210	<b>-12.32</b>	0.02	0.04	0.0060	<b>-0.28</b>
Hb g/dl	1	12.11	12.1	24.21	25.4	0.0570	<b>-1.78</b>	0.01	0.1	0.0160	<b>-0.61</b>
HCT%	1	36.3	36	72.3	78.85	0.3710	<b>-1.30</b>	0.3	0.3	0.0560	<b>0.00</b>
MCV-fl	1	110.1	109.7	219.8	156.85	0.6470	<b>7.57</b>	0.4	0.2	0.0410	<b>0.67</b>
MCH-Pg	1	36.9	36.7	73.6	50.6	0.1190	<b>16.33</b>	0.2	0.2	0.0280	<b>0.00</b>
MCHC-g/dl	1	33.6	33.3	66.9	64	0.3040	<b>0.81</b>	0.3	0.3	0.0440	<b>0.00</b>
Plt. x10 <sup>3</sup> /µl	1	451	418	869	735	5.55	<b>1.93</b>	33	9	1.15	<b>1.96</b>
Retic %	2	0.7	0.6	1.3	6.5	0.39	<b>-0.56</b>	0.1	0.3	48.00	<b>-0.30</b>

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
<b>DLC%</b>	3	Nrbcs=4 , Poly=11 L=04, E=02, Mono/Promono=01 , B1=24 P.M.=14, Mye=30, Meta=09, Other=01	Blast: 80-90, Poly: 5-7, Lymph: 2-7, Eo/Mono/Pro/My/Meta: 0-4		
<b>RBC Morphology</b>	3	Hypochromic ( + ) , Microcytic ( + ) , Anisopoikilocytosis ( + ) , Target Cells ( + )	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic		
<b>Diagnosis</b>	3	Acute Myeloid Leukemia	Acute Leukemia (myeloid lineage)		

EQAP Code No.:  
3104

Distribution No.: 149-H Month/Year: November/2019 Instrument ID: DXH 500 ( BB020119 )

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist.	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 <sup>3</sup> /µl	1	100	82	80.49	87.8	10.98	4.88	12.2	10.98
RBC x10 <sup>6</sup> /µl	1	100	82	84.15	91.46	6.1	0	13.41	8.54
Hb g/dl	1	100	82	87.8	86.59	4.88	7.32	7.32	9.76
HCT%	1	100	82	90.24	89.02	3.66	0	6.1	13.41
MCV-fl	1	100	82	87.8	91.46	2.44	1.22	9.76	10.98
MCH-Pg	1	100	82	84.15	87.8	7.32	3.66	10.98	10.98
MCHC-g/dl	1	100	82	86.59	90.24	6.1	1.22	7.32	9.76
Plt. x10 <sup>3</sup> /µl	1	100	82	87.8	89.02	4.88	6.1	10.98	8.54
ReticCount%	2	100	62	100	93.55	4.84	8.06	3.23	6.45
PS Assessment	3	100	68	Acceptable:93.5%,Warning Signal:3.9%,Unacceptable :2.6%					

**\*Comments:**

1). **Among Lab (EQA) : CBC result for WBC, RBC, MCV & MCH unacceptable, please check calibration/human error.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](http://www.ishtmaiimseqap.com).

Report authorized by,



Dr. R. Saxena

Prof & Head, Hematology, AIIMS, Delhi.

PT Co-ordinator: ISHTM-AIIMS-EQAP

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