



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. : 2307

Distribution No.: 151-E

Month/Year: September/2020

Instrument ID: SD/HAE/XN-330/01, 11093

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: 09-01-2021[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 | 4.57 | 4.51 | 9.08 | 11.36 | 0.0740 | -1.23 | 0.06 | 0.1 | 0.0090 | -0.34 |
| RBC x10 ⁶ /µl | 1 | 4.95 | 4.89 | 9.84 | 9.6 | 0.0090 | 1.04 | 0.06 | 0.04 | 0.0020 | 0.39 |
| Hb g/dl | 1 | 12.3 | 12 | 24.3 | 23.5 | 0.0220 | 1.35 | 0.3 | 0.1 | 0.0080 | 1.35 |
| HCT% | 1 | 39.8 | 39.2 | 79 | 75.6 | 0.1710 | 0.76 | 0.6 | 0.3 | 0.0260 | 0.67 |
| MCV-fl | 1 | 80.4 | 80.2 | 160.6 | 157.2 | 0.2890 | 0.46 | 0.2 | 0.2 | 0.0190 | 0.00 |
| MCH-Pg | 1 | 24.8 | 24.5 | 49.3 | 48.9 | 0.0520 | 0.34 | 0.3 | 0.2 | 0.0130 | 0.45 |
| MCHC-g/dl | 1 | 30.9 | 30.6 | 61.5 | 62.1 | 0.1420 | -0.16 | 0.3 | 0.2 | 0.0220 | 0.34 |
| Plt. x10 ³ /µl | 1 | 170 | 168 | 338 | 340 | 1.66 | -0.05 | 2 | 6 | 0.42 | -0.60 |
| Retic % | 2 | 23 | 22 | 45 | 29.9 | 0.63 | 0.92 | 1 | 1 | 0.06 | 0.00 |

P.S . Assessment

| YOUR REPORT | | | CONSENSUS REPORT | | |
|----------------|---|---|---|--|--|
| DLC% | 3 | Nrbcs= , Poly=06 L=12, E=02, Mono/Promono=02, B1=78 P.M.=, Mye=, Meta=, Other=WBCs are on the higher side of normal range. Platelets are markedly reduced in number. Haemoparasites are not seen. | Blasts: 65-85, Lymph: 2-6, nRBC/Poly/Eo/Mono: 0-5, Pro: 0-10, Myelo/Meta: 0-5. | | |
| RBC Morphology | 3 | RBCs are microcytic hypochromic. Mild degree of anisopoikilocytosis is seen. Occasional polychromatophils are seen. | Predominantly: Normocytic, Normochromic. Moderate: Microcytic. Mild Anisocytosis. | | |
| Diagnosis | 3 | Features are of Acute Myeloid Leukemia. Suggested bone marrow study for further typing and confirmation. | Acute Leukemia (Myeloid Lineage) | | |

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11093**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 ⁹ /µl | 1 | 450 | 272 | 86.4 | 75.74 | 6.25 | 7.72 | 4.04 | 9.19 |
| RBC x10 ⁶ /µl | 1 | 450 | 272 | 84.19 | 84.19 | 4.41 | 4.04 | 7.72 | 5.15 |
| Hb g/dl | 1 | 450 | 272 | 86.03 | 81.99 | 5.15 | 4.78 | 4.78 | 9.19 |
| HCT% | 1 | 450 | 272 | 89.34 | 83.46 | 5.51 | 4.04 | 1.47 | 6.25 |
| MCV-fl | 1 | 450 | 272 | 89.71 | 92.28 | 3.68 | 0.37 | 2.57 | 3.68 |
| MCH-Pg | 1 | 450 | 272 | 80.51 | 82.72 | 8.46 | 3.31 | 6.99 | 6.25 |
| MCHC-g/dl | 1 | 450 | 272 | 88.97 | 78.31 | 4.41 | 6.62 | 2.57 | 6.99 |
| Plt. x10 ⁹ /µl | 1 | 450 | 272 | 88.97 | 85.29 | 4.04 | 4.78 | 3.31 | 6.25 |
| ReticCount% | 2 | 450 | 254 | 96.06 | 93.31 | 2.36 | 2.76 | 2.76 | 5.12 |
| PS Assessment | 3 | 450 | 261 | Acceptable:93.5%,Warning Signal:4.6%,Unacceptable :1.9% | | | | | |

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).

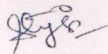
Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

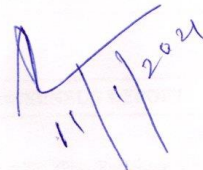
Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

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.ishtmaimseqap.com.

Report authorized by,



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