



RML- Quality Assurance Program (RML-QAP)



HEMATOLOGY

ALL METHOD REPORT

Cycle-12/2023

Lab Code: 2746

Round -4

Date: 31/08/2023

Complete Blood Count (CBC)

| Parameters | No.of Participants | Robust Mean | Robust Standard deviation (SD) | Uncertainty of Assign Values | Range (± 2 SD) | Your Value | Z Score |
|--------------------------------------|--------------------|-------------|--------------------------------|------------------------------|---------------------|------------|---------|
| Hb gm/dl | 310 | 11.9 | 0.4 | 0.03 | 11.1-12.6 | 11.5 | -0.9 |
| WBC $\times 10^3/\mu\text{l}$. | 308 | 11.3 | 0.8 | 0.06 | 9.7-13.0 | 10.5 | -1.0 |
| RBC $\times 10^6/\mu\text{l}$. | 309 | 4.1 | 0.1 | 0.01 | 3.8-4.4 | 4.12 | 0.1 |
| Hct% | 309 | 36.1 | 2.6 | 0.18 | 31.0-41.2 | 33.5 | -1.0 |
| MCV fl. | 308 | 87.7 | 4.9 | 0.35 | 77.9-97.5 | 81.3 | -1.3 |
| MCH pg. | 308 | 28.9 | 1.0 | 0.07 | 26.9-30.8 | 27.9 | -1.0 |
| MCHC gm/dl | 308 | 32.9 | 2.0 | 0.14 | 28.8-36.9 | 34.3 | 0.7 |
| Platelet $\times 10^3/\mu\text{l}$. | 309 | 272.6 | 18.8 | 1.34 | 235.0-310.3 | 274 | 0.1 |

Interpretation of Z Score:

| Z Score Value(+/-) | $[Z] \leq 2.0$ | $2.0 < [Z] < 3.0$ | $[Z] \geq 3.0$ |
|--------------------|---------------------------------------|--------------------------------|---|
| Interpretation | Satisfactory Performance No signal | Questionable Warning Signal | Unsatisfactory Performance action Signal |

Peripheral Blood Smear(PBS):

| | Your Result | Consensus Result |
|------------|---|---|
| DLC | S-02, P-45, L-47, E-03, Mono-03 | P-47.7-68.4, L-23.9-45.9, E-1-3.6, Mono- 1.5-4.7 |
| Morphology | RBC-Microcytic Hypochromic Cells, Microcytic Cells, Tear Drop Cell, Target Cells. | Δ Microcytic/Microcytosis/Microcytes (276/288) Δ Hypochromia/ Hypochromic (259/288) Δ Anisocytosis (230/288) Δ Poikilocytosis (205/288) Δ Target Cells (176/288) |
| Diagnosis | Severe Anaemia-Microcytic Hypochromic type | Microcytic Hypochromic Anemia |

| Legends | (*) Excluded From Group Mean | { } Not Reported | (#)Late Result Submission | (\$)Reported in other Unit |
|---------|------------------------------|------------------|---------------------------|----------------------------|
|---------|------------------------------|------------------|---------------------------|----------------------------|

Chief Coordinator

Dr. Sanjay Mehrotra

Checked By:

Doc. No.: ASS / FR / 06 / R 01 / Dt.: 05.01.2022

Programme Director

Dr. Bandana Mehrotra

End of Report

Page 1 of 5



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Continuous Efforts And Execution Leads To Quality Excellence



RML- Quality Assurance Program (RML-QAP)



HEMATOLOGY METHOD WISE REPORT

Lab Code: 2746

Cycle-12/2023
Round -4

Date: 31/08/2023

Complete Blood Count (CBC)

| Parameters | Method Group | No.of Participants | Method Wise Robust Mean | Method Wise Robust Standard deviation (SD) | Method Wise Uncertainty of Assign Values | Method Wise Range (± 2 SD) | Your Value | Method Wise Z Score |
|--------------------------------------|----------------------|--------------------|-------------------------|--|--|---------------------------------|------------|---------------------|
| Hb gm/dl | Photometric | 181 | 11.8 | 0.4 | 0.04 | 11.0-12.6 | 11.5 | -0.8 |
| WBC $\times 10^3/\mu\text{l}$. | Electrical impedance | 167 | 11.3 | 0.7 | 0.07 | 10.0-12.7 | 10.5 | -1.2 |
| RBC $\times 10^6/\mu\text{l}$. | Electrical impedance | 183 | 4.1 | 0.1 | 0.01 | 3.8-4.4 | 4.12 | 0.0 |
| Hct% | Calculated | 176 | 36.0 | 2.3 | 0.22 | 31.4-40.7 | 33.5 | -1.1 |
| MCV fl. | Calculated | 135 | 87.4 | 4.6 | 0.50 | 78.1-96.6 | 81.3 | -1.3 |
| MCH pg. | Calculated | 187 | 28.7 | 1.0 | 0.09 | 26.8-30.7 | 27.9 | -0.8 |
| MCHC gm/dl | Calculated | 188 | 32.8 | 1.8 | 0.17 | 29.1-36.5 | 34.3 | 0.8 |
| Platelet $\times 10^3/\mu\text{l}$. | Electrical impedance | 177 | 272.7 | 17.4 | 1.64 | 237.8-307.6 | 274 | 0.1 |

Interpretation of Z Score:

| Z Score Value(+/-) | $[Z] \leq 2.0$ | $2.0 < [Z] < 3.0$ | $[Z] \geq 3.0$ |
|--------------------|---------------------------------------|--------------------------------|---|
| Interpretation | Satisfactory Performance No signal | Questionable Warning Signal | Unsatisfactory Performance action Signal |

| Legends | (*) Excluded From Group Mean | {.} Not Reported | (#)Late Result Submission | (\$)Reported in other Unit |
|---------|------------------------------|------------------|---------------------------|----------------------------|
|---------|------------------------------|------------------|---------------------------|----------------------------|

Chief Coordinator

Dr.Sanjay Mehrotra

Checked By:

Prepared By: S.M

Programme Director

Dr.Bandana Mehrotra

End of Report

Page 2 of 5

Doc. No.: ASS / FR / 06A / R 01 / Dt.: 05.01.2022



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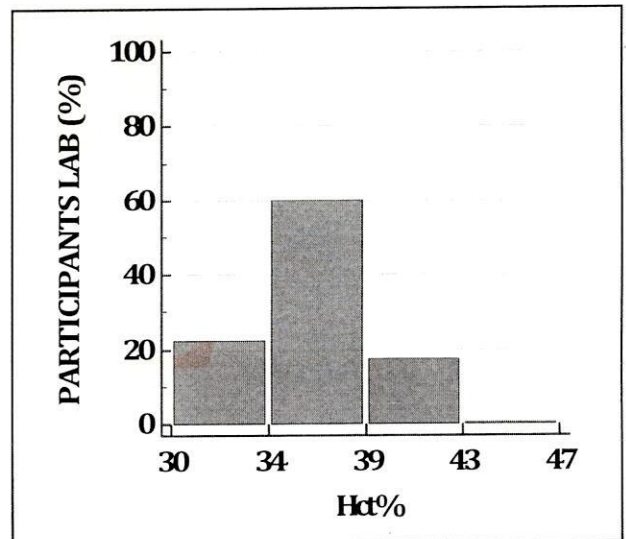
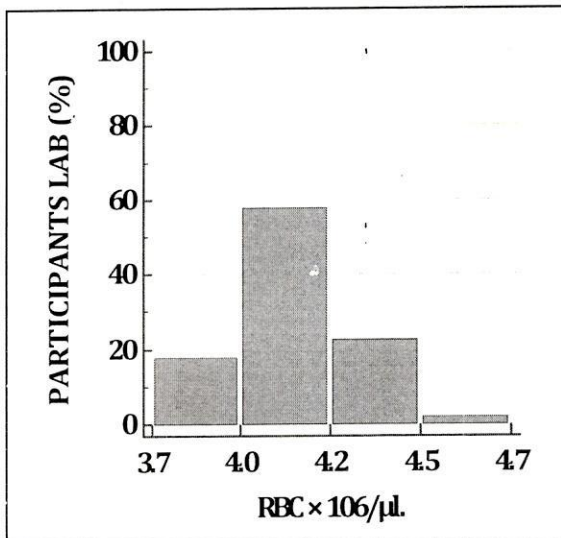
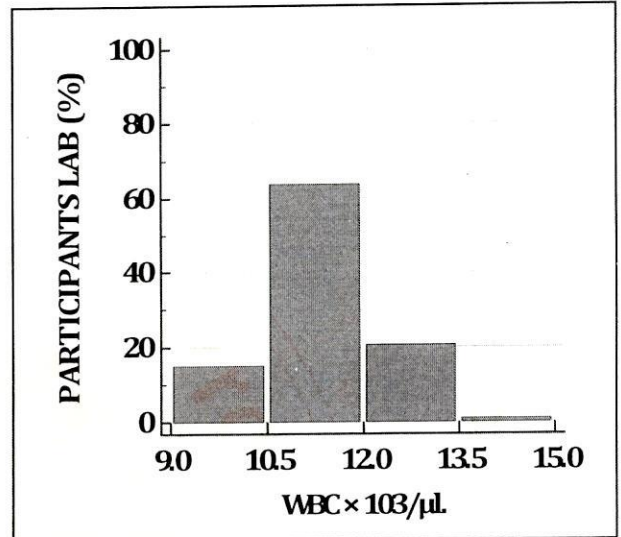
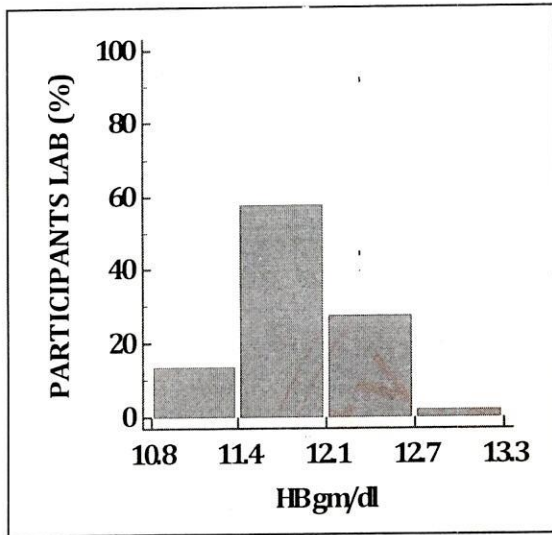
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HEMATOLOGY

GRAPHICAL REPORT

Cycle - 12/2023
Round -4

Date: 31/08/2023



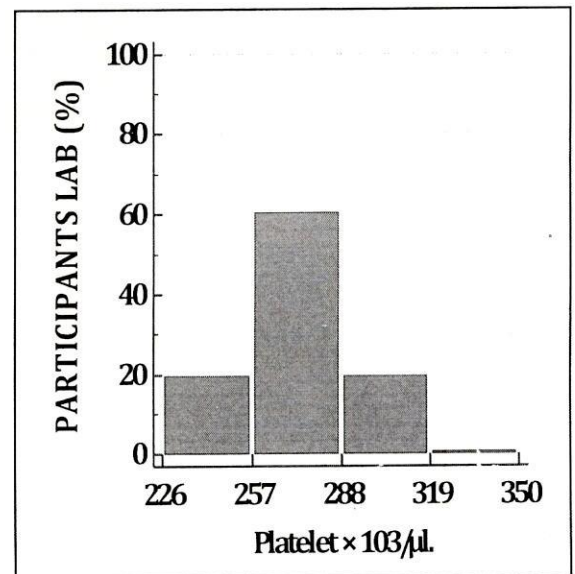
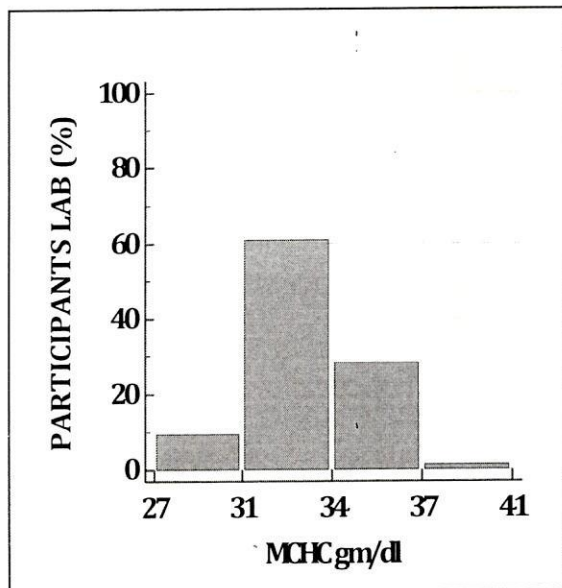
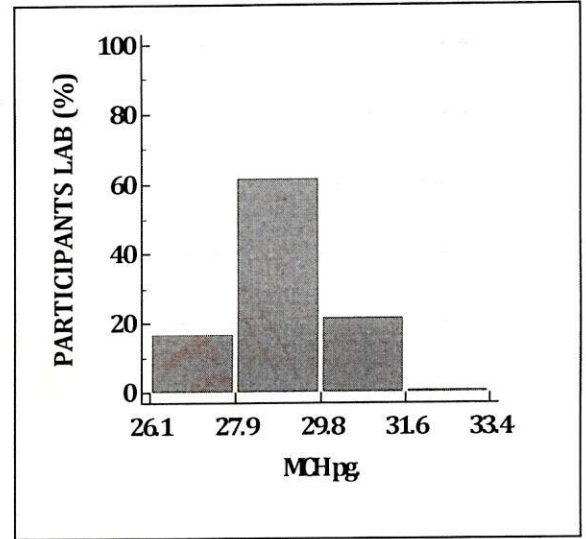
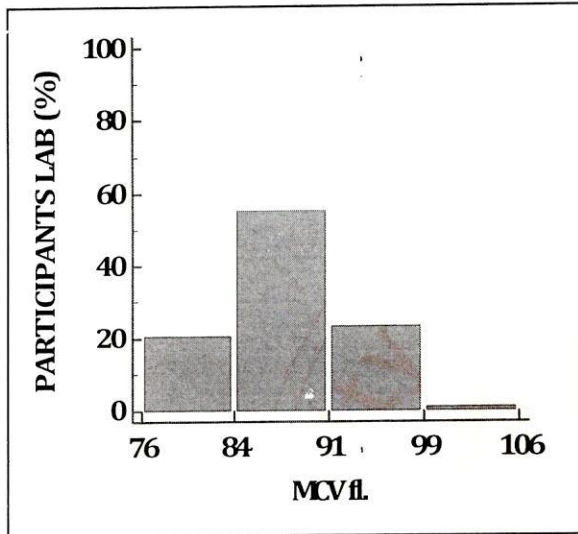


HEMATOLOGY

GRAPHICAL REPORT

Cycle - 12/2023
Round -4

Date: 31/08/2023





Hematology

ALL PARTICIPANTS COMPLETE DATA REPORT

Cycle - 12/2023

Round No - 4

Date: 31/08/2023

Note:- This report is only for information about the participant's performance in the particular round

| Parameters | Total No. of Participants | No. of Responses | No of Participant Excluded from Robust Group Mean | No. of Participants Z Score b/w 0.0 - 2 | No. of Participants Z Score b/w 2.1 - 2.9 | No. of Participants Z Score >3 |
|--------------------------------------|---------------------------|------------------|---|---|---|--------------------------------|
| Hb gm/dl | 414 | 310 | 40 | 255 | 15 | 40 |
| WBC $\times 10^3/\mu\text{l}$. | 414 | 308 | 89 | 205 | 15 | 88 |
| RBC $\times 10^3/\mu\text{l}$. | 414 | 309 | 34 | 253 | 22 | 34 |
| HCT% | 414 | 309 | 17 | 275 | 17 | 17 |
| MCV fl. | 414 | 308 | 2 | 298 | 8 | 2 |
| MCH pg. | 414 | 308 | 16 | 273 | 19 | 16 |
| MCHC gm/dl | 414 | 308 | 12 | 289 | 8 | 11 |
| Platelet $\times 10^3/\mu\text{l}$. | 414 | 309 | 20 | 268 | 21 | 20 |

****End of Report****

Page 5 of 5

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