Correlation Between IPF & PLT Count in Eastern Population



Background

Eastern population is known to have large platelets, resulting in variable reference ranges from rest of India populations. Hence it is required to get a correlation between IPF, a known parameter to bone marrow response thrombocytopenia and PLT count.

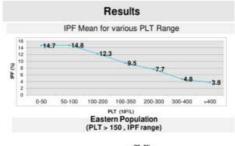
It is necessary to study the correlation between IPF and PLT, at various levels of PLT count and established a biological reference range for IPF population specific.

Objective

- To study correlation between IPF and PLT, at various levels of PLT count
- To establish a biological reference range of IPF for eastern population specifically.
- To correlate with other platelet parameters MPV and

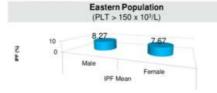
Materials

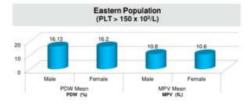
Test parameters	Performed using
Optical Platelet, IPF, MPV, PDW	Mindray BC-5800 hematology analyzer



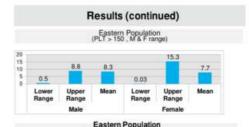


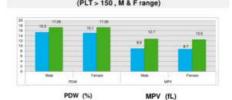
IPF values of patients ranged from 8% to 58%, with mean of 13.5% and SD of 7.2





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Conclusion

- The Immature Platelet Fraction in eastern population ranges from 0.03 to 15.3 with a mean of 8.0 which is higher as compared to other studies.
- · This could be related to a inherent population of low platelet counts and large platelets in the eastern region.
- · This would also help to conduct further studies to study the utility of IPF in Thrombocytopenia and Sepsis.

Glossary

- IPF: Immature Platelet Fraction
- PLT-O: Optical Platelet count in Reticulocyte channel
- PDW: Platelet distribution Width
- MPV: Mean Platelet Volume