

## CONCLUSION:

The above case study highlights the importance of a comprehensive genomic analysis by NGS for MPNs to better categorize patients into prognostic groups and develop therapeutic algorithms. In the present case, had RT-PCR been the only investigation done, the CALR mutation would have been completely missed. Mutations in the genes related with MPNs are pathogenically important and confer a better understanding of the disease. Therefore, genetic testing by NGS aids clinicians in choosing the best treatment for the patient, and predicting patient outcome in the best possible turnaround time and reasonable low cost.

In conclusion, NGS testing should be recommended for JAK2-negative PV patients.

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