Treatment Algorithm Suggested by the Canadian MPN group

Risk Stratification

Low-risk
Age <60 years and no history of thrombosis

1. Cardiovascular risk factors modifications to prevent thrombotic complications
2. Low-dose Aspirin to reduce risk of cardiovascular events
3. Phlebotomy to control erythrocytosis by maintaining hematocrit <45%

• Progressively increasing leukocyte and/or platelet count
• Enlarging spleen
• Uncontrolled disease-related symptoms
• Poorly tolerated phlebotomy

High-risk
Age >60 years and/or prior thrombosis

Cytoreduction

Front-line
• Hydroxyurea
• IFN-α

Second-line*
• Hydroxyurea or IFN-α**
• Ruxolitinib
• Busulfan, anagrelide, participation in clinical trials

*If hydroxyurea and/or IFN-α-resistant/intolerant
**If not used front-line