Patient presents with:
- Polycythemia
- Elevated hemoglobin and hematocrit

Collect specimens for both:
- PVJAK / Polycythemia Vera, *JAK2* V617F with Reflex to *JAK2* Exon 12-15, Sequencing for Erythrocytosis, Varies
- EPO / Erythropoietin, Serum*

Testing begins with: PVJAK / Polycythemia Vera, *JAK2* V617F with Reflex to *JAK2* Exon 12-15, Sequencing for Erythrocytosis, Varies

POSITIVE

NEGATIVE

Life-long/familial erythrocytosis

Acquired erythrocytosis

Polycythemia vera/chronic myeloproliferative neoplasm

Order test REVE2 / Erythrocytosis Evaluation, Blood
With possible reflex to:
- Alpha globin gene sequencing
- Beta globin gene sequencing
- Hereditary erythrocytosis mutations (*EGLN1*, *EPAS1*, *EPOR*)
- von Hippel-Lindau (*VHL*) gene, full gene analysis
- *BPGM* full gene sequencing
- Alpha-globin gene analysis
- Gamma globin full gene sequencing
- Beta globin cluster locus deletion/duplication

If Erythrocytosis Evaluation testing is non-diagnostic or expanded genotyping is desired

Order test NHEP / Hereditary Erythrocytosis Gene Panel, Next-Generation Sequencing, Varies for genotyping of Hereditary Erythrocytosis disorders.**

*Erythropoietin level will be utilized in REVE2 interpretation

**Multiple hematology gene panels are available. For more information, see Hereditary Erythrocytosis Gene Panel and Subpanel Comparison.

Note: This is a germline genetic test. Genetic testing for hereditary disorders typically does not need to be repeated even if performed after blood transfusion.

Contact a Laboratory Genetic Counselor for additional information or to discuss additional testing options.