Erythrocytosis Evaluation Testing Algorithm

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

Polycythemia vera/chronic myeloproliferative neoplasm

NEGATIVE

Life-long/familial erythrocytosis
Acquired erythrocytosis

Order test REVE / Erythrocytosis Evaluation, Whole 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

* Erythropoietin level will be utilized in REVE interpretation