

Diagnostic test to distinguish polycythemia vera from essential thrombocythemia JAK^{2V617F}



Polycythemia vera (PV)



Essential thrombocythemia (ET) JAK^{2V617F}



Hematocrit mean ± SD (%)

50.9±4.4

51.2±5.8

43.5±4.4

42.8±2.2

Hemoglobin mean ± SD (g/dL)

17.1±1.7

16.7±1.8

14.9±1.6

14.4±0.8

Red blood cell mean ± SD (x10⁶/uL)

5.8±0.6

6.0 ± 0.9

4.9±0.8

4.8±0.4

Cr-51 red cell mass mean ± SD (%)

145.3±20.1%

>125% above the expected value

94.8±15.3%

Plasma volume mean ± SD (%)

49 102.7±15.4%

38 96.6±11.5%

p=0.04

Serum erythropoietin value

76 3.5±2.5 mU/mL

23 5.7±2.7 mU/mL

ROC analyses: to determine optimal threshold for discriminating ET^{JAK2V617F} from PV

	Threshold	AUC*		Threshold	AUC*
♂ Hematocrit (%)	49.3	0.819	♀ Hematocrit (%)	47.9	0.957
Hemoglobin (g/dL)	16.8	0.753	♀ Hemoglobin (g/dL)	15.3	0.875
Red blood cell (x10 ⁶ /uL)	5.8±0.6	0.761	Red blood cell (x10 ⁶ /uL)	5.1	0.924

*AUC: computer-calculated area under the curve