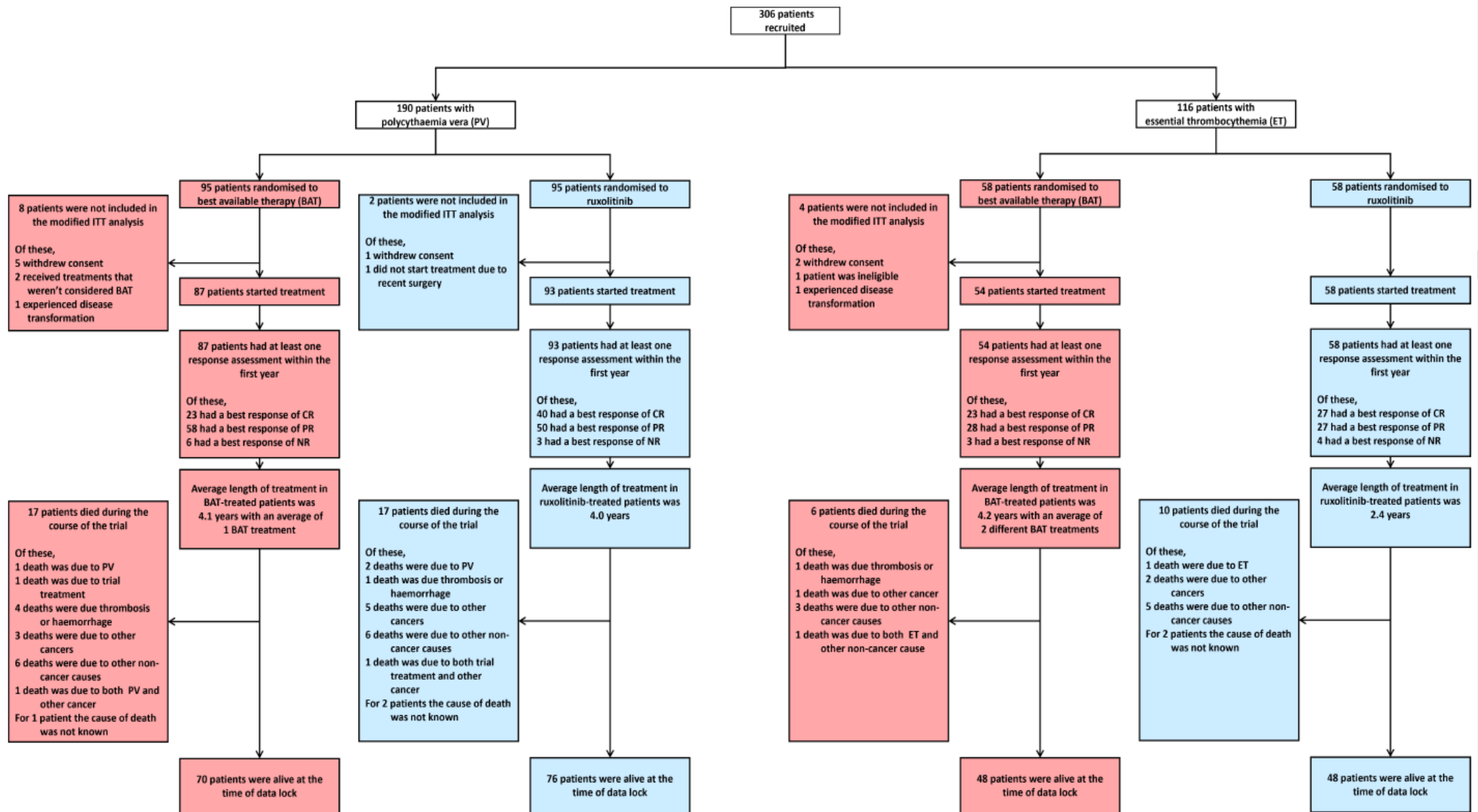


**MAJIC Basic Results Summary**

## Participant Flow



## Baseline Characteristics

**Table 1: Time from diagnosis**

	<b>PV-BAT</b>	<b>PV-Ruxolitinib</b>	<b>All PV</b>	<b>ET-BAT</b>	<b>ET-Ruxolitinib</b>	<b>All ET</b>
N	87	93	180	54	58	112
Mean (SD)	9 years (7)	9 years (7)	9 years (7)	7 years (6)	10 years (7)	9 years (6)
Median	8 years	8 years	8 years	5 years	10 years	7 years
Range	4 months, 32 years	6 days, 30 years	6 days, 32 years	5 months, 24 years	9 months, 31 years	5 months, 31 years

**Table 2: Patient characteristics**

Disease type/Treatment arm	<b>PV-BAT (87)</b>	<b>PV-Ruxolitinib (93)</b>	<b>All PV (180)</b>	<b>ET-BAT (54)</b>	<b>ET-Ruxolitinib (58)</b>	<b>All ET (112)</b>
<b>Age, years</b>						
N	87	93	180	54	58	112
Mean (sd)	64 ( 11)	64 ( 11)	64 ( 11)	65 ( 14)	62 ( 12)	64 ( 13)
Median	66	67	66	67	65	67
Range	28, 85	34, 88	28, 88	37, 85	34, 90	34, 90
<b>Gender (N (%))</b>						
Male	49 ( 56)	56 ( 60)	105 ( 58)	23 ( 43)	22 ( 38)	45 ( 40)
Female	38 ( 44)	37 ( 40)	75 ( 42)	31 ( 57)	36 ( 62)	67 ( 60)
<b>Total</b>	<b>87 (100)</b>	<b>93 (100)</b>	<b>180 (100)</b>	<b>54 (100)</b>	<b>58 (100)</b>	<b>112 (100)</b>
<b>Resistant or intolerant to hydroxycarbomide (N (%))</b>						
Resistant	23 ( 26)	31 ( 33)	54 ( 30)	10 ( 19)	19 ( 33)	29 ( 26)
Intolerant	37 ( 43)	43 ( 46)	80 ( 44)	28 ( 52)	30 ( 52)	58 ( 52)
Both	27 ( 31)	19 ( 20)	46 ( 26)	16 ( 30)	9 ( 16)	25 ( 22)
<b>Total</b>	<b>87 (100)</b>	<b>93 (100)</b>	<b>180 (100)</b>	<b>54 (100)</b>	<b>58 (100)</b>	<b>112 (100)</b>
<b>JAK status (N (%))</b>						
Negative	2 ( 2)	4 ( 4)	6 ( 3)	27 ( 50)	30 ( 52)	57 ( 51)
Positive	85 ( 98)	89 ( 96)	174 ( 97)	27 ( 50)	28 ( 48)	55 ( 49)
<b>Total</b>	<b>87 (100)</b>	<b>93 (100)</b>	<b>180 (100)</b>	<b>54 (100)</b>	<b>58 (100)</b>	<b>112 (100)</b>

## Outcome Measures

### Primary Outcomes:

**Table 3: Complete response within a year**

Disease type/Treatment arm	PV-BAT (87)	PV-Ruxolitinib (93)	All PV (180)	ET-BAT (54)	ET-Ruxolitinib (58)	All ET (112)
Best response within a year						
No or partial response	64 ( 74)	53 ( 57)	117 ( 65)	31 ( 57)	31 ( 53)	62 ( 55)
Complete response	23 ( 26)	40 ( 43)	63 ( 35)	23 ( 43)	27 ( 47)	50 ( 45)

### Secondary Outcomes:

**Table 4: Best response within a year**

Disease type/Treatment arm	PV-BAT (87)	PV-Ruxolitinib (93)	All PV (180)	ET-BAT (54)	ET-Ruxolitinib (58)	All ET (112)
Best response within a year						
NR	6 ( 7)	3 ( 3)	9 ( 5)	3 ( 6)	4 ( 7)	7 ( 6)
PR	58 ( 67)	50 ( 54)	108 ( 60)	28 ( 52)	27 ( 47)	55 ( 49)
CR	23 ( 26)	40 ( 43)	63 ( 35)	23 ( 43)	27 ( 47)	50 ( 45)
Best overall response within a year						
NR	6 ( 7)	3 ( 3)	9 ( 5)	3 ( 6)	4 ( 7)	7 ( 6)
Overall response (PR+CR)	81 ( 93)	90 ( 97)	171 ( 95)	51 ( 94)	54 ( 93)	105 ( 94)

NR = no response; PR = partial response; CR = complete response

**Table 5- Summary of response rates within the first year of the trial:**

Response	PV-BAT	PV-Ruxolitinib	All PV	ET-BAT	ET-Ruxolitinib	All ET
Complete response	26% (95% CI: 18, 37)	43% (95% CI: 33, 54)	35% (95% CI: 28, 42)	43% (95% CI: 29, 57)	47% (95% CI: 33, 60)	45% (95% CI: 35, 54)
Overall response	93% (95% CI: 86, 97)	97% (95% CI: 91, 99)	95% (95% CI: 91, 98)	94% (95% CI: 85, 99)	93% (95% CI: 83, 98)	94% (95% CI: 88, 97)

**Table 6: Summary of events, median survival and survival proportions for PFS and OS**

		PV-BAT	PV-Ruxolitinib	All PV	ET-BAT	ET-Ruxolitinib	All ET
PFS	Number of events	27	22	49	9	17	26
	Median survival	Not reached	Not reached	Not reached	Not reached	Not reached	Not reached
	Survival percentage at 1 year	95% (95% CI: 88, 98)	96% (95% CI: 89, 98)	95% (95% CI: 91, 98)	98% (95% CI: 87, 100)	91% (95% CI: 80, 96)	95% (95% CI: 88, 97)
	3 years	75% (95% CI: 63, 83)	84% (95% CI: 74, 90)	79% (95% CI: 72, 85)	90% (95% CI: 78, 96)	78% (95% CI: 64, 87)	84% (95% CI: 75, 90)
	5 years	64% (95% CI: 51, 74)	76% (95% CI: 65, 84)	70% (95% CI: 62, 77)	81% (95% CI: 67, 90)	55% (95% CI: 26, 77)	71% (95% CI: 59, 81)
OS	Number of events	17	17	34	6	10	16
	Median survival	Not reached	Not reached	Not reached	Not reached	Not reached	Not reached
	Survival percentage at 1 year	99% (95% CI: 92, 100)	100%	99% (95% CI: 96, 100)	98% (95% CI: 87, 100)	98% (95% CI: 88, 100)	98% (95% CI: 93, 100)
	3 years	87% (95% CI: 77, 93)	88% (95% CI: 79, 93)	87% (95% CI: 81, 92)	96% (95% CI: 85, 99)	89% (95% CI: 76, 95)	93% (95% CI: 86, 97)
	5 years	75% (95% CI: 61, 84)	83% (95% CI: 72, 89)	79% (95% CI: 71, 85)	87% (95% CI: 73, 94)	64% (95% CI: 28, 85)	80% (95% CI: 66, 88)

-Progression free survival(PFS) is defined as the time from date of registration to the date of progression or date of death from any cause

-Overall survival (OS) is defined as the as the time from date of registration to the date of death from any cause

**Table 7: Haemorrhagic and thromboembolic events**

Events (Patients affected, %*)	PV-BAT	PV-Ruxolitinib	All PV	ET-BAT	ET-Ruxolitinib	All ET
Haemorrhagic event	18 (16; 18%)	15 (12; 13%)	33 (28; 16%)	7 (7; 13%)	3 (3; 5%)	10 (10; 9%)
Major haemorrhagic event	11 (10; 11%)	3 (2; 2%)	14 (12; 7%)	4 (4; 7%)	1 (1; 2%)	5 (5; 4%)
Thromboembolic event	22 (17; 20%)	14 (10; 11%)	36 (27; 15%)	10 (7; 13%)	11 (10; 17%)	21 (17; 15%)
Major thromboembolic event	22 (17; 20%)	13 (9; 10%)	35 (26; 14%)	6 (5; 9%)	8 (7; 12%)	14 (12; 11%)

## Adverse Events

**Table 8: Summary of AE toxicities (CTCAE grade 3 and above) occurring in at least 5% of patients**

Events (patients, %)	
<b>PV</b>	
<b>BAT</b>	
Sepsis	7 (5, 6%)
Thromboembolic event	6 (6, 7%)
<b>Ruxolitinib</b>	
Anemia	12 (7, 8%)
<b>ET</b>	
<b>Ruxolitinib</b>	
Anemia	24 (14, 24%)
Dyspnea	3 (3, 5%)
Fall	3 (3, 5%)
Headache	3 (3, 5%)
Hyperkalemia	3 (3, 5%)
Hypertension	3 (3, 5%)
Lung infection	5 (5, 9%)
Thromboembolic event	5 (4, 7%)

**Table 9: Summary of AE toxicities (CTCAE grade 3 and above) considered related to treatment occurring in at least 5% of patients**

Events (patients, %)	
<b>PV</b>	
<b>Ruxolitinib</b>	
Anemia	11 (6, 6%)
<b>ET</b>	
<b>Ruxolitinib</b>	
Anemia	22 (12, 21%)
Lung infection	3 (3, 5%)

**Table 10: SAE Categorisation Summary**

Disease type/Treatment arm	PV-BAT (97)	PV-Ruxolitinib (135)	All PV (232)	ET-BAT (38)	ET-Ruxolitinib (75)	All ET (113)
<b>SAE Categorisation (N (%))</b>						
Unrelated SAE	89 ( 92)	96 ( 71)	185 ( 80)	36 ( 95)	50 ( 67)	86 ( 76)
SAR	1 ( 1)	28 ( 21)	29 ( 13)	0 ( 0)	20 ( 27)	20 ( 18)
Non fatal/life-threatening SUSAR	0 ( 0)	8 ( 6)	8 ( 3)	0 ( 0)	4 ( 5)	4 ( 4)
Fatal/life-threatening SUSAR	0 ( 0)	3 ( 2)	3 ( 1)	0 ( 0)	1 ( 1)	1 ( 1)
No recorded categorisation	7 ( 7)	0 ( 0)	7 ( 3)	2 ( 5)	0 ( 0)	2 ( 2)
<b>Total</b>	97 (100)	135 (100)	232 (100)	38 (100)	75 (100)	113 (100)

N = number of events

**Table 11: Summary table of admitting toxicities including SUSARS and SARs**

Events (Patients, %)	PV-BAT	PV-Ruxolitinib	ET-Ruxolitinib
Abdominal pain	0 (0, 0%)	1 (1, 1%)	1 (1, 2%)
Anemia	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Atrial fibrillation	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Basal cell carcinoma	0 (0, 0%)	3 (3, 3%)	0 (0, 0%)
Chest infection	0 (0, 0%)	0 (0, 0%)	2 (2, 3%)
Dental caries	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Diarrhea	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Dyspnea	0 (0, 0%)	2 (2, 2%)	3 (3, 5%)
EBV reactivation	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Encephalitis infection	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Esophageal infection	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Fever	0 (0, 0%)	1 (1, 1%)	1 (1, 2%)
Gum infection	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Headache	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Heart failure	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Hematoma	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Lower gastrointestinal hemorrhage	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Lung infection	0 (0, 0%)	2 (2, 2%)	4 (4, 7%)
Lymph gland infection	0 (0, 0%)	2 (2, 2%)	0 (0, 0%)
Myocardial infarction	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Myoclonic jerk	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Neck edema	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Neoplasm benign, malignant and unspecified	1 (1, 1%)	4 (2, 2%)	0 (0, 0%)
Otitis media	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Platelet count decreased	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Pleuritic pain	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Pulmonary thromboembolus	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Soft tissue infection	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Squamous cell carcinoma	0 (0, 0%)	6 (5, 5%)	1 (1, 2%)
Sudden death NOS	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Surgical procedure	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
TB	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Thromboembolic event	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Transformation to Myelodysplastic syndrome	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)
Transformation to Myelofibrosis	0 (0, 0%)	1 (1, 1%)	2 (2, 3%)
Upper respiratory infection	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
Urinary tract infection	0 (0, 0%)	1 (1, 1%)	0 (0, 0%)
small bowel necrosis	0 (0, 0%)	0 (0, 0%)	1 (1, 2%)