

Sponsor

Novartis Pharmaceuticals

Generic Drug Name

Ruxolitinib

Trial Indication(s)

Polycythaemia vera

Protocol Number

CINC424BDE12

Protocol Title

A prospective, non-interventional study of JAKAVI® (ruxolitinib) treatment in patients with polycythemia vera (PAVE)

Clinical Trial Phase

Phase IV

Phase of Drug Development

Approval

Study Start/End Dates

Study Start Date: August 17, 2015 (Actual) Primary Completion Date: May 03, 2023 (Actual) Study Completion Date: May 03, 2023 (Actual)



Reason for Termination (If applicable)

NA

Study Design/Methodology

Data on efficacy and safety of ruxolitinib for patients with PV are largely from clinical trials. Thus, the prospective recording of daily practice reality was the main aim of this project and could only be done by the study design of a NIS. This NIS was planned to be conducted in a multicenter setting at approximately 125 hematology/ oncology practices and hospitals in Germany, thus ensuring the representativeness of the population of the involved study centers to the greatest extent possible.

A maximum of 500 male and female patients with PV treated with ruxolitinib according to routine medical practice and according to the manufacturer's instructions were prospectively observed in this NIS. The frequency of visits per patient was not fixed but should be in line with current practice.

Patients were divided into two groups:

- Patients without prior treatment with ruxolitinib or other JAK-inhibitor (about 250).
- Patients pretreated with a JAK inhibitor (ruxolitinib or other JAK-inhibitor, about 250).

Centers

Germany(103)

Objectives:

The following specific objectives were of interest:

- Investigation of the effectiveness of ruxolitinib in daily practice based on the hematocrit value, phlebotomy need, spleen size and constitutional symptoms.
- Investigation of the use of ruxolitinib in daily practice: initial dosage, dose adjustments and their reasons, therapy pauses and discontinuations (and their reasons), side effect management, concomitant medication.
- Extended investigation of the tolerability and safety of ruxolitinib in daily practice based on the total number of adverse events (AEs) and serious adverse events (SAEs, with and without causal relationship to ruxolitinib).
- Assessment of QoL before and during ruxolitinib therapy.



- Comparison of the effectiveness, tolerability and safety of ruxolitinib in Janus Kinase- (JAK-) inhibitor naive and JAK-inhibitor pretreated patients.
- Stratification of patients according to the presence of risk factors:
 - Age > 60 years,
 - o prior thromboembolic event; and
 - o comparison of the efficacy of ruxolitinib between the different risk groups.
- Documentation of patient care and patient satisfaction.
- Assessment of symptom burden and QoL (MPN10 and SF-36 questionnaires).

Test Product (s), Dose(s), and Mode(s) of Administration

Ruxolitinib or other JAK-inhibitor

Statistical Methods

Parameters which were at least interval scaled were tabulated by the following sample statistics:

Number of non-missing data, mean, standard deviation, minimum, median and maximum.

Parameters which were nominally or ordinally scaled were tabulated by absolute and relative frequencies. In general, missing values were not considered for calculation of percentages (i.e., adjusted percentages were calculated) if not otherwise specified.

The analysis set (AS) comprised all patients who fulfilled all inclusion criteria (diagnosis of PV, treatment with ruxolitinib indicated, written informed consent), received at least one dose of ruxolitinib during the study and performed the BL-visit. Patients that were locked in the eCRF are not regarded as "enrolled" and therefore excluded from the AS.

All variables collected in this NIS were analyzed and reported using adequate statistical methods. The NIS was primarily analyzed using descriptive methods. Where confidence intervals (CI) or p-values are given, these are also purely descriptive. Due to the exploratory nature of the analysis, no alpha adjustment was made for multiple comparisons. Variables at least at the interval level were tabulated with their sample characteristics (number of valid and missing values, minimum, maximum, 5%-percentile, 1st quartile, 3rd quartile, 95%-percentile, median, mean, standard deviation). For variables at nominal and ordinal levels, distributions of absolute and relative frequencies were output.

For AEs, incidences based on the included patient population and incidence densities (number of events/sum of persontimes in years) were reported according to Medical Dictionary for Regulatory Activities (MedDRA) System Organ Class



(SOC) and Preferred Term (PT) for AEs, serious adverse events (SAEs), adverse drug reactions (ADRs), and serious adverse drug reactions (SADRs).

All patients who had received at least one dose of ruxolitinib and for whom at least one followup documentation was available were included in the analysis.

Study Population: Key Inclusion/Exclusion Criteria

Inclusion Criteria:

- Adult male and female patients with PV for whom Jakavi® therapy is indicated according to the European summary of product characteristics
- Patients who have been informed about this NIS and gave written consent

Participant Flow Table



Table 10-3: Patient disposition

AS Event	JAK-inhibitor naive (N=165) n (%)	JAK-inhibitor pretreated (N=268) n (%)	Total (N=433) n (%)
Study completed			
Yes (completer)	109 (66.1)	175 (65.3)	284 (65.6)
No (drop-out)	56 (33.9)	93 (34.7)	149 (34.4)
Reason for premature discontinuation ^a			
Death	8 (4.8)	27 (10.1)	35 (8.1)
Adverse event	14 (8.5)	20 (7.5)	34 (7.9)
Lost-to-follow-up	11 (6.7)	22 (8.2)	33 (7.6)
Other	13 (7.9)	16 (6.0)	29 (6.7)
Deterioration of general health	6 (3.6)	6 (2.2)	12 (2.8)
Poor compliance	6 (3.6)	4 (1.5)	10 (2.3)
Progression of primary disease	1 (0.6)	9 (3.4)	10 (2.3)
No therapy response	6 (3.6)	1 (0.4)	7 (1.6)
Infections	-	1 (0.4)	1 (0.2)

Abbreviations: AS = Analysis Set, JAK = Janus Kinase

Deaths after end of treatment (last documented visit after end of treatment) were not considered.

In case of missing study completion status:

If last visit was not Month 36 then study completion status is set to "No (drop out)" and reason was set to "Lost-to-follow-up"

^a Multiple answers possible

If documentation in Month 36 is present then study completion status was set to "Yes (completer)"

If completion status is "on treatment" and an adverse event with outcome "death" was documented study completion status was set to "No (drop out)" and reason was set to death.



Baseline Characteristics

Presence of risk factors at Baseline

AS Variable	JAK-inhibitor naive (N=165) n (%)	JAK-inhibitor pretreated (N=268) n (%)	Total (N=433) n (%)
Age	II (70)	2 (70)	2 (/0)
Age < 60 year	27 (16.4)	47 (17.5)	74 (17.1)
Age ≥ 60 years	138 (83.6)	221 (82.5)	359 (82.9)
Thromboembolic event			
Absence at BL	114 (69.1)	180 (67.2)	294 (67.9)
Presence at BL	51 (30.9)	88 (32.8)	139 (32.1)
Patients at high risk			
No high risk	20 (12.1)	29 (10.8)	49 (11.3)
With high risk	145 (87.9)	239 (89.2)	384 (88.7)

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase

High risk was defined by older or equal than 60 years and/or history of thromboembolic events.



Demography and smoking status at Baseline

AS	JAK-inhibitor	JAK-inhibitor	
	naive	pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Age (years)			
n	165	268	433
$Mean \pm SD$	70.6 ± 11.2	69.7 ± 10.4	70.1 ± 10.7
Median (range)	74.0 (26.0 to 91.0)	71.0 (33.0 to 90.0)	72.0 (26.0 to 91.0)
Sex			
Male	89 (53.9)	147 (54.9)	236 (54.5)
Female	76 (46.1)	121 (45.1)	197 (45.5)
Weight (kg)			
n	146	203	349
$Mean \pm SD$	79.1 ± 17.7	79.0 ± 15.2	79.0 ± 16.3
Median (range)	76.0 (44.0 to 140.0)	78.0 (42.5 to 130.0)	78.0 (42.5 to 140.0)
Height (cm)			
n	153	224	377
$Mean \pm SD$	171.6 ± 9.9	172.1 ± 9.2	171.9 ± 9.5
Median (range)	172.0 (143.0 to 198.0)	172.0 (153.0 to 198.0)	172.0 (143.0 to 198.0)
BMI (kg/m ²)			
n	145	196	341
$Mean \pm SD$	26.7 ± 4.8	26.6 ± 4.3	26.7 ± 4.5
Median (range)	25.8 (18.7 to 44.2)	26.0 (17.3 to 43.5)	25.9 (17.3 to 44.2)
Smoking status, n (%)			
Non-smoker	70 (42.4)	98 (36.6)	168 (38.8)
Smoker	13 (7.9)	14 (5.2)	27 (6.2)
Ex-smoker	12 (7.3)	29 (10.8)	41 (9.5)
unknown/not determined	70 (42.4)	127 (47.4)	197 (45.5)

Abbreviations: AS = Analysis Set, BL = Baseline, BMI = Body Mass Index, JAK = Janus Kinase, SD = Standard Deviation High risk was defined by older or equal than 60 years and/or history of thromboembolic events.



Blood values at Baseline

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Hematocrit (%)			
n	160	253	413
$Mean \pm SD$	43.1 ± 6.4	38.9 ± 6.0	40.5 ± 6.5
Median (range)	44.3 (24.0 to 62.7)	39.0 (23.9 to 57.2)	40.7 (23.9 to 62.7)
Erythrocytes (10 ⁶ /μl)			
n	157	237	394
$Mean \pm SD$	5.1 ± 1.2	4.5 ± 1.0	4.7 ± 1.1
Median (range)	5.1 (2.1 to 7.8)	4.4 (2.5 to 8.2)	4.6 (2.1 to 8.2)
Thrombocytes (10 ³ /µl)			
n	139	251	390
$Mean \pm SD$	428.3 ± 213.6	388.4 ± 202.3	402.6 ± 207.0
Median (range)	409.0 (58.0 to 978.0)	342.0 (56.0 to 991.0)	364.0 (56.0 to 991.0)
Leukocytes (10 ³ /μl)			
n	162	257	419
$Mean \pm SD$	16.2 ± 11.8	11.7 ± 9.7	13.4 ± 10.8
Median (range)	13.2 (0.0 to 58.8)	8.8 (0.0 to 86.8)	9.9 (0.0 to 86.8)

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, SD = Standard Deviation



Phlebotomies prior to Baseline

AS	JAK-inhibitor naive	JAK-inhibitor	Total
Variable	(N=165)	pretreated (N=268)	(N=433)
Number of phlebotomies	, , , , , , , , , , , , , , , , , , ,	, ,	, ,
since diagnosis			
n	155	232	387
$Mean \pm SD$	16.5 ± 16.0	16.6 ± 24.9	16.5 ± 21.8
Median (range)	13.0 (0.0 to 103.0)	10.0 (0.0 to 250.0)	10.0 (0.0 to 250.0)
Time since last			
phlebotomy (months)			
n	134	209	343
$Mean \pm SD$	20.0 ± 39.3	29.5 ± 42.0	25.8 ± 41.2
Median (range)	4.1 (0.0 to 290.6)	13.5 (0.0 to 266.8)	9.6 (0.0 to 290.6)
Number of phlebotomies			
in the last month (30 days)			
n	162	259	421
$Mean \pm SD$	0.3 ± 0.6	0.1 ± 0.4	0.2 ± 0.5
Median (range)	0.0 (0.0 to 3.0)	0.0 (0.0 to 3.0)	0.0 (0.0 to 3.0)
Number of phlebotomies			
in the last month (30 days),			
n (%)			
0	120 (74.1)	237 (91.5)	357 (84.8)
1	34 (21.0)	19 (7.3)	53 (12.6)
2	7 (4.3)	2 (0.8)	9 (2.1)
3	1 (0.6)	1 (0.4)	2 (0.5)
Missing values	3	9	12

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation



Spleen examinations at Baseline

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Spleen palpation, n (%)			
No	93 (56.4)	183 (68.3)	276 (63.7)
Yes	72 (43.6)	85 (31.7)	157 (36.3)
Sonography, n (%)			
No	87 (52.7)	178 (66.4)	265 (61.2)
Yes	78 (47.3)	90 (33.6)	168 (38.8)
CT/MRI, n (%)			
No	163 (98.8)	266 (99.3)	429 (99.1)
Yes	2 (1.2)	2 (0.7)	4 (0.9)

 $Abbreviations: AS = Analysis \ Set, CT = Computerized \ Tomography, \\ JAK = Janus \ Kinase, \\ MRI = Magnetic \ Resonance \ Imaging$

MPN10 questionnaire at Baseline

AS	JAK-inhibitor	JAK-inhibitor	
	naive	pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
TSS			
n	138	237	375
$Mean \pm SD$	30.0 ± 14.7	26.5 ± 12.7	27.8 ± 13.5
Median (range)	28.0 (8.0 to 83.0)	24.0 (1.0 to 65.0)	25.0 (1.0 to 83.0)
Fatigue			
n	137	234	371
$Mean \pm SD$	4.5 ± 2.3	4.3 ± 2.2	4.4 ± 2.3
Median (range)	5.0 (1.0 to 10.0)	4.0 (1.0 to 10.0)	4.0 (1.0 to 10.0)
Early satiety			
n	137	236	373
$Mean \pm SD$	3.3 ± 2.6	3.0 ± 2.2	3.1 ± 2.4
Median (range)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)

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AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Abdominal discomfort			
n	138	235	373
Mean ± SD	2.7 ± 2.2	2.5 ± 2.0	2.6 ± 2.1
Median (range)	2.0 (1.0 to 9.0)	2.0 (1.0 to 9.0)	2.0 (1.0 to 9.0)
Inactivity			
n	133	224	357
$Mean \pm SD$	3.2 ± 2.4	3.1 ± 2.3	3.1 ± 2.3
Median (range)	2.0 (1.0 to 10.0)	3.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)
Concentration problems			
n	140	228	368
Mean ± SD	3.3 ± 2.5	3.3 ± 2.3	3.3 ± 2.4
Median (range)	2.0 (1.0 to 10.0)	3.0 (1.0 to 10.0)	3.0 (1.0 to 10.0)
Night sweats			
n	137	234	371
Mean ± SD	3.2 ± 2.7	3.0 ± 2.3	3.1 ± 2.5
Median (range)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)
Pruritus			
n	138	233	371
Mean ± SD	3.8 ± 3.1	2.6 ± 2.2	3.0 ± 2.6
Median (range)	2.5 (1.0 to 10.0)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)
Bone pain			
n	136	233	369
Mean ± SD	3.0 ± 2.6	2.7 ± 2.3	2.8 ± 2.4
Median (range)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)	2.0 (1.0 to 10.0)
Unintended weight loss			
n	137	234	371
Mean ± SD	2.4 ± 2.5	1.8 ± 1.7	2.0 ± 2.0
Median (range)	1.0 (1.0 to 10.0)	1.0 (1.0 to 10.0)	1.0 (1.0 to 10.0)
Fever (> 38°C)			
n	135	228	363
Mean ± SD	1.1 ± 0.4	1.1 ± 0.5	1.1 ± 0.5
Median (range)	1.0 (1.0 to 3.0)	1.0 (1.0 to 7.0)	1.0 (1.0 to 7.0)

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, MPN = Myeloproliferative Neoplasm, SD = Standard Deviation, TSS = Total Symptom Score
Patients scored symptoms on a scale from 0 to 10, with 10 being the "worst imaginable" symptom severity. TSS was computed as the average of the observed items multiplied by 10.



Molecular results at Baseline

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Assessment of JAK2V617F mutation done? n (%)			
No	23 (13.9)	34 (12.7)	57 (13.2)
Yes	142 (86.1)	234 (87.3)	376 (86.8)
Result, n (%)			
Negative	3 (2.1)	6 (2.6)	9 (2.4)
Positive	139 (97.9)	225 (96.2)	364 (96.8)
Unknown/not determined	-	3 (1.3)	3 (0.8)

Abbreviations: AS = Analysis Set, JAK = Janus Kinase

Constitutional symptoms at Baseline

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Symptoms overall	83 (50.3)	114 (42.5)	197 (45.5)
Fatigue	49 (29.7)	55 (20.5)	104 (24.0)
Pruritus	41 (24.8)	63 (23.5)	104 (24.0)
Night sweat	23 (13.9)	27 (10.1)	50 (11.5)
Weight loss	11 (6.7)	10 (3.7)	21 (4.8)
Headache	7 (4.2)	8 (3.0)	15 (3.5)
Insomnia	6 (3.6)	7 (2.6)	13 (3.0)
Fever	1 (0.6)	-	1 (0.2)
Other	21 (12.7)	34 (12.7)	55 (12.7)



ECOG performance status at Baseline

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
ECOG performance status, n (%)			
0	60 (45.5)	108 (56.0)	168 (51.7)
1	65 (49.2)	71 (36.8)	136 (41.8)
2	7 (5.3)	11 (5.7)	18 (5.5)
3	-	3 (1.6)	3 (0.9)
4	-	-	-
5	-	-	-
Not done	33	75	108

Abbreviations: AS = Analysis Set, BL = Baseline, ECOG = Eastern Cooperative Oncology Group, JAK = Janus Kinase The ECOG performance status ranges from 0 to 5 where 0 = fully active, able to carry on all pre-disease performance witho restriction, 1= restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work, 2 = ambulatory and capable of all selfcare but unable to carry out any work activities; up and about more than 50% of waking hours, 3 = capable of only limited selfcare; confined to bed or chair more than 50% of waking hours, 4 = completely disabled; cannot carry on any selfcare; totally confined to bed or chair, 5 = dead.



Bone marrow aspiration

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Examination performed, n			
(%) No	55 (22.2)	04 (21 2)	120 (22.1)
	55 (33.3)	84 (31.3)	139 (32.1)
Yes	110 (66.7)	184 (68.7)	294 (67.9)
Time since biopsy (months)	100	100	200
n	108	180	288
Mean ± SD	73.4 ± 63.2	75.5 ± 62.9	74.7 ± 62.9
Median (range)	60.4 (0.3 to 268.9)	62.0 (0.3 to 274.8)	61.3 (0.3 to 274.8)
Blasts (%)			
n	72	98	170
$Mean \pm SD$	1.8 ± 2.6	1.3 ± 2.5	1.5 ± 2.6
Median (range)	0.0 (0.0 to 15.0)	0.0 (0.0 to 15.0)	0.0 (0.0 to 15.0)
Blasts, n (%)			
0	38 (52.8)	61 (62.2)	99 (58.2)
> 0	34 (47.2)	37 (37.8)	71 (41.8)
Missing value	38	86	124
Proliferation of all three blo	od cell lines ^a present, n	ı (%)	
No	13 (11.8)	23 (12.5)	36 (12.2)
Yes	49 (44.5)	95 (51.6)	144 (49.0)
Not evaluable	-	3 (1.6)	3 (1.0)
Unknown/not determined	48 (43.6)	63 (34.2)	111 (37.8)
Reticulin- and/or collagen fi	brosis, n (%)		
No	33 (30.0)	51 (27.7)	84 (28.6)
Yes	13 (11.8)	33 (17.9)	46 (15.6)
Not evaluable	-	3 (1.6)	3 (1.0)
Unknown/not determined	64 (58.2)	97 (52.7)	161 (54.8)
Grade of fibrosis, n (%)			
Grade 0	2 (15.4)	1 (3.0)	3 (6.5)
Grade 1	7 (53.8)	22 (66.7)	29 (63.0)



AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Grade 2	1 (7.7)	2 (6.1)	3 (6.5)
Grade 3	-	1 (3.0)	1 (2.2)
Not evaluable	3 (23.1)	7 (21.2)	10 (21.7)

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, SD = Standard Deviation

Primary Outcome Result(s)

Dosing

a Erythrocytes, thrombocytes, leukocytes



Initial and last daily dose of ruxolitinib

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total				
Variable	(N=165)	(N=268)	(N=433)				
Initial daily dose (mg)							
n	165	267	432				
$Mean \pm SD$	21.4 ± 7.2	23.1 ± 9.8	22.4 ± 8.9				
Median (range)	20.0 (10.0 to 40.0)	20.0 (0.0 to 50.0)	20.0 (0.0 to 50.0)				
Initial daily dose, n (%)							
20 mg	112 (67.9)	117 (43.8)	229 (53.0)				
30 mg	20 (12.1)	51 (19.1)	71 (16.4)				
10 mg	20 (12.1)	37 (13.9)	57 (13.2)				
40 mg	12 (7.3)	39 (14.6)	51 (11.8)				
15 mg	1 (0.6)	11 (4.1)	12 (2.8)				
5 mg	-	5 (1.9)	5 (1.2)				
36 mg	-	2 (0.7)	2 (0.5)				
0 mg	-	1 (0.4)	1 (0.2)				
3 mg	-	1 (0.4)	1 (0.2)				
16 mg	-	1 (0.4)	1 (0.2)				
26 mg	-	1 (0.4)	1 (0.2)				
50 mg	-	1 (0.4)	1 (0.2)				
Missing values	-	1	1				
Last daily dose (mg)							
n	165	268	433				
$Mean \pm SD$	22.8 ± 10.3	21.6 ± 10.2	22.1 ± 10.2				
Median (range)	20.0 (5.0 to 50.0)	20.0 (3.0 to 50.0)	20.0 (3.0 to 50.0)				
Last daily dose, n (%)							
20 mg	71 (43.0)	98 (36.6)	169 (39.0)				
10 mg	29 (17.6)	51 (19.0)	80 (18.5)				
30 mg	25 (15.2)	54 (20.1)	79 (18.2)				
40 mg	28 (17.0)	28 (10.4)	56 (12.9)				



AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
5 mg	4 (2.4)	11 (4.1)	15 (3.5)
15 mg	4 (2.4)	16 (6.0)	20 (4.6)
50 mg	1 (0.6)	3 (1.1)	4 (0.9)
14 mg	2 (1.2)	-	2 (0.5)
25 mg	1 (0.6)	1 (0.4)	2 (0.5)
3 mg	-	1 (0.4)	1 (0.2)
6 mg	-	1 (0.4)	1 (0.2)
7 mg	-	1 (0.4)	1 (0.2)
24 mg	-	1 (0.4)	1 (0.2)
35 mg	-	1 (0.4)	1 (0.2)
36 mg	-	1 (0.4)	1 (0.2)
0 mg	-	-	-

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation

Average ruxolitinib dose per day and treatment duration

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total			
Variable	(N=165)	(N=268)	(N=433)			
Treatment duration						
(months)						
n	165	268	433			
$Mean \pm SD$	27.5 ± 11.9	28.5 ± 10.9	28.1 ± 11.3			
Median (range)	34.0 (0.2 to 45.6)	34.5 (0.0 to 40.0)	34.5 (0.0 to 45.6)			
Average dose/day (mg)						
n	165	268	433			
$Mean \pm SD$	22.8 ± 8.3	22.0 ± 9.6	22.3 ± 9.1			
Median (range)	20.0 (5.6 to 45.7)	20.0 (3.9 to 47.9)	20.0 (3.9 to 47.9)			

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation

Adjustment of the dose of ruxolitinib



AS	JAK-inhibitor	JAK-inhibitor	
	naive	pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Number of dose adjustment	s per patient, n (%)		
0	46 (27.9)	78 (29.1)	124 (28.6)
1	31 (18.8)	59 (22.0)	90 (20.8)
2	30 (18.2)	48 (17.9)	78 (18.0)
3	12 (7.3)	31 (11.6)	43 (9.9)
4	16 (9.7)	22 (8.2)	38 (8.8)
5	10 (6.1)	7 (2.6)	17 (3.9)
6	6 (3.6)	5 (1.9)	11 (2.5)
7	4 (2.4)	6 (2.2)	10 (2.3)
8	2 (1.2)	4 (1.5)	6 (1.4)
9	2 (1.2)	3 (1.1)	5 (1.2)
10	3 (1.8)	1 (0.4)	4 (0.9)
11	1 (0.6)	-	1 (0.2)
12	-	2 (0.7)	2 (0.5)
13	-	2 (0.7)	2 (0.5)
14	1 (0.6)	-	1 (0.2)
19	1 (0.6)	-	1 (0.2)
Reason for dose adjustment	a, n (%)		-
Adverse event	128 (31.1)	146 (26.3)	274 (28.4)
Thrombocytopenia	10 (2.4)	21 (3.8)	31 (3.2)
Kidney dysfunction	-	1 (0.2)	1 (0.1)
Liver dysfunction	-	2 (0.4)	2 (0.2)
Concomitant medication	-	•	-
Lack of efficacy	21 (5.1)	20 (3.6)	41 (4.2)
Other	252 (61.3)	365 (65.8)	617 (63.9)

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation

Overall survival

^a Percentages were calculated on the basis of total number of adjustments.



Table 10-4: Overall survival

		JAK-inhibitor	
AS	JAK-inhibitor naive (N=165)	pretreated (N=268)	Total (N=433)
	n (%)	n (%)	n (%)
Status			
Death	11 (6.7)	28 (10.4)	39 (9.0)
Survival	154 (93.3)	240 (89.6)	394 (91.0)
Kaplan-Meier es	timates for survival and 95% (CI	
Month 6	0.99 [0.95; 1.00]	0.98 [0.95; 0.99]	0.99 [0.97; 0.99]
Month 12	0.97 [0.93; 0.99]	0.96 [0.92; 0.98]	0.96 [0.94; 0.98]
Month 18	0.97 [0.92; 0.99]	0.94 [0.91; 0.97]	0.95 [0.92; 0.97]
Month 24	0.96 [0.91; 0.98]	0.93 [0.89; 0.96]	0.94 [0.91; 0.96]
Month 30	0.95 [0.90; 0.98]	0.91 [0.86; 0.94]	0.92 [0.89; 0.95]
Month 36	0.91 [0.84; 0.95]	0.87 [0.82; 0.91]	0.89 [0.85; 0.92]

Abbreviations: AS = Analysis Set, CI = Confidence Interval, JAK = Janus Kinase

All cases documented on AE-page and end of treatment page were considered. In case of missing death date, the death date was replaced by last visit. Note: There are some cases of deaths included which occurred after end of treatment.

Interruption of ruxolitinib therapy



AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Number of interruptions		, ,	, , ,
per patient, n (%)			
0	138 (83.6)	219 (81.7)	357 (82.4)
1	15 (9.1)	40 (14.9)	55 (12.7)
2	8 (4.8)	5 (1.9)	13 (3.0)
3	1 (0.6)	3 (1.1)	4 (0.9)
4	2 (1.2)	-	2 (0.5)
5	-	1 (0.4)	1 (0.2)
6	1 (0.6)	-	1 (0.2)
Reason for interruptionsa,			
n (%)			
Adverse event	29 (60.4)	39 (60.9)	68 (60.7)
Thrombocytopenia	2 (4.2)	4 (6.3)	6 (5.4)
Kidney dysfunction	-	1 (1.6)	1 (0.9)
Liver dysfunction	-	-	-
Concomitant medication	-	-	-
Lack of efficacy	-	-	-
Other	17 (35.4)	20 (31.3)	37 (33.0)
Total duration of			
interruptions (days)			
n	27	49	76
$Mean \pm SD$	42.6 ± 54.7	45.5 ± 45.6	44.5 ± 48.7
Median (range)	23.0 (2.0 to 206.0)	26.0 (1.0 to 169.0)	24.0 (1.0 to 206.0)

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation

^a Percentages were calculated on the basis of total number of interruptions.

Hematology



Course of hematocrit levels (%) and difference to BL for JAK-inhibitor naïve and JAK-inhibitor pretreated patients (adjusted by 1st visit in the study)

AS		JAK-in	naïve (N=165)		J	AK-inhib	oitor p	retreate	d (N=20	Total (N=433)							
	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max
Course																		
BL	160	43.1	6.4	24.0	44.3	62.7	253	38.9	6.0	23.9	39.0	57.2	413	40.5	6.5	23.9	40.7	62.7
Month 1	138	41.3	5.6	25.1	41.3	56.7	154	38.1	6.0	25.2	38.1	54.0	292	39.6	6.0	25.1	40.0	56.7
Month 2	107	38.0	6.0	23.5	38.7	51.0	145	37.9	5.9	24.4	38.2	50.3	252	38.0	5.9	23.5	38.3	51.0
Month 3	133	36.6	6.1	22.6	35.9	52.9	208	37.5	5.6	22.9	37.5	50.6	341	37.2	5.8	22.6	37.0	52.9
Month 6	139	37.1	6.1	24.9	36.8	55.0	224	37.5	5.3	23.0	37.5	54.0	363	37.4	5.6	23.0	37.1	55.0
Month 9	128	37.0	5.9	24.3	36.8	58.0	208	38.2	5.4	20.4	38.0	57.0	336	37.7	5.6	20.4	37.6	58.0
Month 12	136	37.1	5.6	24.0	36.8	50.3	212	38.3	5.1	23.2	38.0	52.6	348	37.8	5.3	23.2	37.5	52.6
Month 18	127	37.1	5.8	22.9	37.5	54.6	198	38.6	5.4	19.5	38.3	55.3	325	38.0	5.6	19.5	38.0	55.3
Month 24	116	37.4	5.6	25.0	37.6	53.3	190	38.3	5.0	22.4	38.0	52.8	306	37.9	5.3	22.4	38.0	53.3
Month 30	101	37.7	5.2	25.1	38.2	50.4	155	38.3	5.1	25.1	38.0	50.3	256	38.1	5.1	25.1	38.0	50.4
Month 36	89	36.6	4.8	26.0	36.6	47.1	148	38.3	5.1	23.8	38.7	52.0	237	37.7	5.1	23.8	37.7	52.0
Last pBL	161	36.9	5.7	24.1	36.8	58.0	263	37.4	5.8	22.7	37.9	52.0	424	37.2	5.7	22.7	37.2	58.0
Difference to	o BL																	
Month 1	135	-1.9	4.4	-15.9	-2.0	13.7	149	-1.2	4.0	-16.6	-0.7	14.0	284	-1.5	4.2	-16.6	-1.0	14.0
Month 2	105	-5.4	5.3	-21.7	-5.2	7.4	143	-1.5	5.7	-28.0	-0.1	14.0	248	-3.1	5.9	-28.0	-2.0	14.0
Month 3	129	-6.3	7.2	-25.7	-6.5	12.9	197	-1.3	5.0	-22.1	-0.8	15.4	326	-3.3	6.5	-25.7	-2.0	15.4
Month 6	136	-6.2	6.6	-25.6	-6.1	13.0	213	-1.7	5.6	-22.7	-1.0	12.6	349	-3.5	6.4	-25.6	-2.5	13.0
Month 9	125	-6.2	6.7	-28.7	-6.8	11.4	200	-1.2	5.6	-19.2	-0.8	15.6	325	-3.1	6.6	-28.7	-2.5	15.6
Month 12	133	- 6.4	6.4	-24.4	- 6.4	9.3	202	-1.2	5.6	-18.0	-1.4	12.7	335	-3.3	6.4	-24.4	-2.7	12.7
Month 18	124	-6.6	7.0	-26.3	-7.0	14.0	187	-0.8	5.4	-18.0	-0.4	15.5	311	-3.1	6.7	-26.3	-2.8	15.5
Month 24	114	-6.3	6.7	-24.4	-6.7	8.1	180	-1.3	5.4	-17.0	-1.2	12.0	294	-3.2	6.4	-24.4	-2.5	12.0
Month 30	99	-5.6	6.5	-27.5	-6.0	9.8	146	-1.7	6.0	-18.0	-2.1	16.0	245	-3.3	6.5	-27.5	-3.1	16.0
Month 36	87	-6.9	6.3	-24.6	-7.3	7.0	141	-1.6	5.8	-19.0	-1.8	17.0	228	-3.7	6.5	-24.6	-4.0	17.0
Last pBL	157	-6.2	6.7	-27.5	-6.1	12.9	251	-1.6	5.7	-19.0	-1.8	17.0	408	-3.4	6.5	-27.5	-3.0	17.0

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, Med = Median, pBL = post Baseline, SD = Standard Deviation

Course of hematocrit levels (%) and difference to BL by risk classification (adjusted by 1st application of ruxolitinib)



AS		No	high r	isk (N=	4 9)			H	igh ri sl	k (N=38	4)		Total (N=433)					
	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max
Course																		
BL	20	44.6	7.0	24.0	45.9	54.0	140	42.8	6.3	24.0	44.0	62.7	160	43.1	6.4	24.0	44.3	62.7
Month 1	24	43.5	4.7	33.6	43.3	57.2	181	41.0	5.7	23.9	41.0	56.7	205	41.3	5.7	23.9	41.2	57.2
Month 2	20	40.6	4.8	32.8	40.9	48.7	149	37.9	6.0	23.5	38.2	51.0	169	38.2	6.0	23.5	38.5	51.0
Month 3	31	39.3	5.9	25.6	40.4	52.9	215	36.5	5.7	22.6	36.0	51.0	246	36.9	5.8	22.6	36.5	52.9
Month 6	35	40.1	6.2	26.5	39.9	55.0	230	36.8	5.8	22.9	36.7	53.0	265	37.2	6.0	22.9	37.0	55.0
Month 9	33	40.0	6.0	30.8	39.6	58.0	228	37.0	5.7	23.1	36.8	54.0	261	37.4	5.8	23.1	37.0	58.0
Month 12	33	39.7	4.4	28.0	39.2	47.1	255	37.5	5.5	23.3	37.3	51.2	288	37.8	5.5	23.3	37.8	51.2
Month 18	33	39.2	4.8	24.4	38.9	49.0	257	37.9	5.6	19.5	38.0	54.6	290	38.0	5.6	19.5	38.0	54.6
Month 24	33	40.7	5.0	29.1	40.3	50.0	245	37.9	5.5	22.4	38.0	57.0	278	38.2	5.5	22.4	38.0	57.0
Month 30	32	40.9	3.9	35.2	40.7	51.5	223	37.9	5.3	22.7	38.2	52.6	255	38.3	5.2	22.7	38.5	52.6
Month 36	32	39.3	4.0	26.5	39.0	47.0	229	37.4	5.4	24.2	37.4	53.7	261	37.6	5.3	24.2	37.7	53.7
Month 48	7	38.7	2.9	33.7	38.5	42.0	71	37.4	4.9	25.3	37.1	48.7	78	37.5	4.8	25.3	37.3	48.7
Month 60	5	39.3	7.0	30.6	42.0	46.0	40	37.6	5.2	23.9	38.0	45.6	45	37.8	5.3	23.9	38.0	46.0
Month 72	3	37.4	5.4	31.2	40.0	41.0	20	37.3	6.1	22.6	37.3	52.0	23	37.3	5.9	22.6	38.0	52.0
Last pBL	48	39.2	5.8	24.4	39.4	58.0	378	37.0	5.7	22.6	37.0	53.3	426	37.3	5.8	22.6	37.3	58.0
Difference to	BL																	
Month 1	18	-1.6	5.2	-10.5	-2.3	13.7	119	-2.0	4.2	-15.9	-1.7	8.0	137	-1.9	4.3	-15.9	-2.0	13.7
Month 2	13	-4.3	5.2	-10.8	-6.3	2.9	92	-5.6	5.6	-21.7	-5.3	7.4	105	-5.4	5.5	-21.7	-5.4	7.4
Month 3	18	-5.8	7.6	-17.7	-7.2	12.9	110	-6.4	7.1	-25.7	-6.3	10.9	128	-6.4	7.1	-25.7	-6.6	12.9
Month 6	19	-5.7	5.9	-22.5	-5.4	2.7	118	-6.2	6.7	-25.6	-6.4	13.0	137	-6.1	6.6	-25.6	-6.1	13.0
Month 9	15	-6.0	5.2	-12.9	-6.7	4.0	109	-6.3	6.9	-28.7	-6.9	11.4	124	-6.3	6.7	-28.7	-6.8	11.4
Month 12	14	-7.2	4.9	-19.5	-7.4	-0.9	118	-6.3	6.6	-24.4	-6.2	9.3	132	-6.4	6.4	-24.4	-6.3	9.3
Month 18	14	-7.4	4.7	-17.7	-7.5	1.8	110	-6.5	7.2	-26.3	-7.0	14.0	124	-6.6	7.0	-26.3	-7.0	14.0
Month 24	14	-5.6	5.2	-18.4	-5.4	3.0	100	-6.4	6.9	-24.4	-6.8	8.1	114	-6.3	6.7	-24.4	-6.7	8.1
Month 30	13	-5.6	3.2	-10.4	-5.7	-1.0	85	-5.6	6.8	-27.5	-6.0	9.8	98	-5.6	6.5	-27.5	-6.0	9.8
Month 36	13	-8.0	4.7	-21.0	-6.0	-4.1	74	-6.7	6.5	-24.6	-7.4	7.0	87	-6.9	6.3	-24.6	-7.3	7.0
Last pBL	20	-5.3	6.6	-21.0	-5.5	12.9	137	-6.3	6.7	-27.5	-6.6	8.1	157	-6.2	6.7	-27.5	-6.1	12.9

Abbreviations: AS = Analysis Set, BL = Baseline, Med = Median, pBL = post Baseline, SD = Standard Deviation

Course of erythrocyte counts (106/µI) and difference to BL for JAK-inhibitor naïve and JAK-inhibitor pretreated



patients (adjusted by 1st visit in the study)

AS	JAK-inhibitor naïve (N=165)						\mathbf{J}_{A}	AK-inhib	itor pı	retreate	d (N=26	(8)	Total (N=433)					
	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max
Course																		
BL	157	5.1	1.2	2.1	5.1	7.8	237	4.5	1.0	2.5	4.4	8.2	394	4.7	1.1	2.1	4.6	8.2
Month 1	134	5.0	1.1	2.5	5.0	7.8	142	4.5	1.1	2.5	4.4	7.5	276	4.8	1.1	2.5	4.6	7.8
Month 2	106	4.6	1.1	2.5	4.5	7.6	140	4.4	0.9	2.6	4.3	7.7	246	4.5	1.0	2.5	4.4	7.7
Month 3	131	4.3	1.0	2.3	4.2	8.1	193	4.3	0.8	2.5	4.2	7.1	324	4.3	0.9	2.3	4.2	8.1
Month 6	137	4.3	0.9	2.6	4.1	8.2	211	4.3	0.8	2.5	4.3	7.6	348	4.3	0.9	2.5	4.2	8.2
Month 9	127	4.2	0.8	2.6	4.1	7.2	198	4.4	0.8	2.3	4.2	8.0	325	4.3	0.8	2.3	4.2	8.0
Month 12	135	4.2	0.8	2.4	4.2	6.7	202	4.4	0.8	2.5	4.3	8.0	337	4.3	0.8	2.4	4.3	8.0
Month 18	125	4.2	0.8	2.3	4.2	6.4	187	4.4	0.8	2.1	4.3	8.1	312	4.3	0.8	2.1	4.2	8.1
Month 24	117	4.2	0.8	2.6	4.1	7.4	179	4.3	0.7	2.5	4.2	7.5	296	4.3	0.7	2.5	4.2	7.5
Month 30	105	4.2	0.7	2.7	4.2	6.0	147	4.3	0.8	2.7	4.2	8.4	252	4.3	0.8	2.7	4.2	8.4
Month 36	87	4.0	0.6	2.5	4.0	5.8	142	4.3	0.8	2.6	4.3	8.2	229	4.2	0.7	2.5	4.2	8.2
Last pBL	160	4.1	0.8	2.5	4.0	7.4	249	4.2	0.8	2.5	4.2	8.2	409	4.2	0.8	2.5	4.1	8.2
Difference to	BL																	
Month 1	131	-0.2	0.6	-2.2	-0.2	2.4	133	-0.2	0.5	-1.8	-0.1	0.8	264	-0.2	0.5	-2.2	-0.1	2.4
Month 2	103	-0.6	0.7	-2.4	-0.6	0.7	133	-0.2	0.7	-3.9	-0.0	1.1	236	-0.4	0.7	-3.9	-0.2	1.1
Month 3	126	-0.8	1.1	-3.2	-0.8	2.5	181	-0.2	0.7	-2.8	-0.1	1.5	307	-0.4	0.9	-3.2	-0.2	2.5
Month 6	133	-0.9	1.2	-4.8	-0.9	2.2	196	-0.3	0.9	-2.9	-0.1	1.5	329	-0.5	1.1	-4.8	-0.3	2.2
Month 9	122	-1.0	1.2	-4.4	-0.9	2.0	187	-0.2	0.9	-3.5	-0.1	2.5	309	-0.5	1.1	-4.4	-0.3	2.5
Month 12	131	-1.0	1.2	-4.5	-1.0	1.7	189	-0.2	0.9	-2.9	-0.1	2.6	320	-0.5	1.1	-4.5	-0.3	2.6
Month 18	121	-1.0	1.2	-4.4	-1.0	1.8	175	-0.2	0.9	-3.0	-0.1	2.2	296	-0.5	1.1	-4.4	-0.3	2.2
Month 24	112	-1.0	1.2	-4.1	-1.0	2.0	168	-0.3	0.9	-3.0	-0.2	1.9	280	-0.6	1.1	-4.1	-0.4	2.0
Month 30	101	-1.0	1.2	-5.1	-1.0	1.6	138	-0.3	1.0	-3.2	-0.2	2.4	239	-0.6	1.1	-5.1	-0.5	2.4
Month 36	84	-1.2	1.1	-3.7	-1.2	1.3	132	-0.4	1.0	-3.5	-0.2	2.6	216	-0.7	1.1	-3.7	-0.5	2.6
Last pBL	154	-1.0	1.2	-5.1	-0.9	2.5	232	-0.3	1.0	-3.5	-0.2	2.6	386	-0.6	1.1	-5.1	-0.5	2.6

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, Med = Median, pBL = post Baseline, SD = Standard Deviation

Course of erythrocyte counts (106/µI) and difference to BL by risk classification (adjusted by 1st application of



ruxolitinib)

	No	high r	isk (N=	4 9)		High risk (N=384)							Total (N=433)					
n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	
20	5.3	1.2	2.2	5.6	7.4	137	5.0	1.2	2.1	5.1	7.8	157	5.1	1.2	2.1	5.1	7.8	
22	5.2	1.1	3.3	5.4	7.2	178	4.9	1.1	2.5	5.0	7.8	200	4.9	1.1	2.5	5.0	7.8	
19	4.9	1.0	3.4	4.9	7.6	146	4.6	1.0	2.5	4.5	7.0	165	4.6	1.0	2.5	4.5	7.6	
29	4.7	1.1	2.8	4.5	8.1	209	4.3	0.9	2.3	4.2	6.8	238	4.3	0.9	2.3	4.2	8.1	
33	4.6	1.0	3.0	4.5	8.2	222	4.2	0.9	2.5	4.1	7.1	255	4.3	0.9	2.5	4.2	8.2	
32	4.5	0.8	3.4	4.3	7.2	220	4.2	0.8	2.6	4.1	6.9	252	4.3	0.8	2.6	4.1	7.2	
30	4.5	0.7	3.1	4.4	6.2	248	4.3	0.8	2.4	4.2	7.6	278	4.3	0.8	2.4	4.2	7.6	
31	4.5	0.9	2.8	4.3	8.0	247	4.3	0.8	2.1	4.3	8.2	278	4.3	0.8	2.1	4.3	8.2	
31	4.7	1.0	3.3	4.5	8.1	238	4.3	0.8	2.5	4.2	7.9	269	4.3	0.8	2.5	4.2	8.1	
32	4.7	0.9	3.3	4.3	7.5	216	4.3	0.7	2.7	4.2	7.4	248	4.3	0.8	2.7	4.2	7.5	
30	4.4	0.8	2.9	4.2	7.3	221	4.2	0.8	2.3	4.2	8.4	251	4.2	0.8	2.3	4.2	8.4	
6	4.2	0.3	3.6	4.3	4.4	69	4.2	0.8	2.8	4.1	6.7	75	4.2	0.7	2.8	4.2	6.7	
5	4.4	0.9	3.3	4.8	5.4	39	4.2	0.7	2.6	4.3	5.6	44	4.2	0.8	2.6	4.3	5.6	
3	4.2	0.4	3.8	4.3	4.5	19	4.3	0.8	2.8	4.2	5.7	22	4.2	0.8	2.8	4.2	5.7	
46	4.5	1.0	2.8	4.3	7.3	365	4.2	0.8	2.5	4.1	8.4	411	4.2	0.8	2.5	4.2	8.4	
BL																		
17	-0.1	0.6	-1.1	-0.2	1.5	116	-0.2	0.6	-2.2	-0.1	2.4	133	-0.2	0.6	-2.2	-0.2	2.4	
13	-0.4	0.7	-1.5	-0.6	0.6	90	-0.6	0.7	-2.4	-0.6	0.8	103	-0.6	0.7	-2.4	-0.6	0.8	
18	-0.6	1.1	-2.3	-0.7	2.5	107	-0.8	1.1	-3.2	-0.8	1.5	125	-0.8	1.1	-3.2	-0.8	2.5	
19	-0.8	1.0	-2.6	-0.5	0.8	115	-0.9	1.2	- 4.8	-0.9	2.2	134	-0.9	1.2	-4.8	-0.9	2.2	
15	-1.0	0.9	-2.9	-1.1	0.6	106	-1.0	1.3	-4.4	-0.9	2.0	121	-1.0	1.2	-4.4	-0.9	2.0	
14	-1.2	0.8	-2.8	-1.2	-0.0	116	-1.0	1.2	-4.5	-1.0	1.7	130	-1.0	1.2	-4.5	-1.0	1.7	
14	-1.2	0.9	-2.7	-1.1	0.5	107	-1.0	1.3	-4.4	-1.0	1.8	121	-1.0	1.2	-4.4	-1.0	1.8	
14	-1.1	0.8	-2.5	-0.9	0.2	98	-1.0	1.2	-4.1	-1.1	2.0	112	-1.0	1.2	-4.1	-1.0	2.0	
14	-1.1	0.8	-2.7	-1.1	0.2	86	-0.9	1.3	-5.1	-0.9	1.6	100	-1.0	1.2	-5.1	-1.0	1.6	
13	-1.4	0.8	-2.9	-1.5	-0.2	71	-1.2	1.2	-3.7	-1.2	1.3	84	-1.2	1.1	-3.7	-1.2	1.3	
20	-0.9	1.2	-2.9	-0.9	2.5	134	-1.0	1.2	-5.1	-0.9	1.6	154	-1.0	1.2	-5.1	-0.9	2.5	
_	20 22 19 29 33 32 30 31 31 32 30 6 5 3 46 BL 17 13 18 19 15 14 14 14 14 13 20	n Mean 20 5.3 22 5.2 19 4.9 29 4.7 33 4.6 32 4.5 30 4.5 31 4.7 32 4.7 30 4.4 6 4.2 5 4.4 3 4.2 46 4.5 BL 17 -0.1 13 -0.4 18 -0.6 19 -0.8 15 -1.0 14 -1.2 14 -1.2 14 -1.1 13 -1.4 20 -0.9	n Mean SD 20 5.3 1.2 22 5.2 1.1 19 4.9 1.0 29 4.7 1.1 33 4.6 1.0 32 4.5 0.8 30 4.5 0.7 31 4.5 0.9 31 4.7 1.0 32 4.7 0.9 30 4.4 0.8 6 4.2 0.3 5 4.4 0.9 3 4.2 0.4 46 4.5 1.0 BL 17 -0.1 0.6 13 -0.4 0.7 18 -0.6 1.1 19 -0.8 1.0 15 -1.0 0.9 14 -1.2 0.8 14 -1.1 0.8 14 -1.1 0.8 14 -1.1 0.8	n Mean SD Min 20 5.3 1.2 2.2 22 5.2 1.1 3.3 19 4.9 1.0 3.4 29 4.7 1.1 2.8 33 4.6 1.0 3.0 32 4.5 0.8 3.4 30 4.5 0.7 3.1 31 4.5 0.9 2.8 31 4.7 1.0 3.3 32 4.7 0.9 3.3 30 4.4 0.8 2.9 6 4.2 0.3 3.6 5 4.4 0.9 3.3 3 4.2 0.4 3.8 46 4.5 1.0 2.8 BL 17 -0.1 0.6 -1.1 13 -0.4 0.7 -1.5 18 -0.6 1.1 -2.3 19 -0.8 1.0	20 5.3 1.2 2.2 5.6 22 5.2 1.1 3.3 5.4 19 4.9 1.0 3.4 4.9 29 4.7 1.1 2.8 4.5 33 4.6 1.0 3.0 4.5 32 4.5 0.8 3.4 4.3 30 4.5 0.7 3.1 4.4 31 4.5 0.9 2.8 4.3 31 4.7 1.0 3.3 4.5 32 4.7 0.9 3.3 4.5 32 4.7 0.9 3.3 4.5 32 4.7 0.9 3.3 4.3 30 4.4 0.8 2.9 4.2 6 4.2 0.3 3.6 4.3 5 4.4 0.9 3.3 4.8 3 4.2 0.4 3.8 4.3 46 4.5 1.0 2.8 4.3 BL 17 -0.1 0.6 -1.1 -0.2 13 -0.4 0.7 -1.5 -0.6 18 -0.6 1.1 -2.3 -0.7 19 -0.8 1.0 -2.6 -0.5 15 -1.0 0.9 -2.9 -1.1 14 -1.2 0.8 -2.8 -1.2 14 -1.2 0.8 -2.8 -1.2 14 -1.1 0.8 -2.5 -0.9 14 -1.1 0.8 -2.5 -0.9 14 -1.1 0.8 -2.7 -1.1 13 -1.4 0.8 -2.9 -1.5 20 -0.9 1.2 -2.9 -0.9	n Mean SD Min Med Max 20 5.3 1.2 2.2 5.6 7.4 22 5.2 1.1 3.3 5.4 7.2 19 4.9 1.0 3.4 4.9 7.6 29 4.7 1.1 2.8 4.5 8.1 33 4.6 1.0 3.0 4.5 8.2 32 4.5 0.8 3.4 4.3 7.2 30 4.5 0.7 3.1 4.4 6.2 31 4.5 0.9 2.8 4.3 8.0 31 4.7 1.0 3.3 4.5 8.1 32 4.7 0.9 3.3 4.3 7.5 30 4.4 0.8 2.9 4.2 7.3 6 4.2 0.3 3.6 4.3 4.4 5 4.4 0.9 3.3 4.8 5.4 3	n Mean SD Min Med Max n 20 5.3 1.2 2.2 5.6 7.4 137 22 5.2 1.1 3.3 5.4 7.2 178 19 4.9 1.0 3.4 4.9 7.6 146 29 4.7 1.1 2.8 4.5 8.1 209 33 4.6 1.0 3.0 4.5 8.2 222 32 4.5 0.8 3.4 4.3 7.2 220 30 4.5 0.7 3.1 4.4 6.2 248 31 4.5 0.9 2.8 4.3 8.0 247 31 4.7 1.0 3.3 4.5 8.1 238 32 4.7 0.9 3.3 4.3 7.5 216 30 4.4 0.8 2.9 4.2 7.3 221 6 4.2 0.3 <td>n Mean SD Min Med Max n Mean 20 5.3 1.2 2.2 5.6 7.4 137 5.0 22 5.2 1.1 3.3 5.4 7.2 178 4.9 19 4.9 1.0 3.4 4.9 7.6 146 4.6 29 4.7 1.1 2.8 4.5 8.1 209 4.3 33 4.6 1.0 3.0 4.5 8.2 222 4.2 32 4.5 0.8 3.4 4.3 7.2 220 4.2 30 4.5 0.7 3.1 4.4 6.2 248 4.3 31 4.5 0.9 2.8 4.3 8.0 247 4.3 31 4.7 1.0 3.3 4.5 8.1 238 4.3 32 4.7 0.9 3.3 4.3 7.5 216 4.3</td> <td>n Mean SD Min Med Max n Mean SD 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 32 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 30 4.5 0.7 3.1 4.4 6.2 248 4.3 0.8 31 4.7 1.0 3.3 4.5 8.1 238 4.3 0.8 31 4.7 1.0 3.3 4.5 8.1 238 4.3</td> <td>n Mean SD Min Med Max n Mean SD Min 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 2.1 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 2.5 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 2.5 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 2.3 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 2.5 32 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 2.6 30 4.5 0.7 3.1 4.4 6.2 248 4.3 0.8 2.1 31 4.7 1.0 3.3 4.5 8.1 238 4.3 0.8 2.5 <</td> <td>n Mean SD Min Med Max n Mean SD Min Med 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 2.1 5.1 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 2.5 5.0 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 2.5 4.5 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 2.3 4.2 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 2.5 4.1 30 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 2.6 4.1 30 4.5 0.7 3.1 4.4 6.2 248 4.3 0.8 2.1 4.2 31 4.5</td> <td>n Mean SD Min Med Max n Mean SD Min Med Max 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 2.1 5.1 7.8 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 2.5 5.0 7.8 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 2.5 4.5 7.0 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 2.3 4.2 6.8 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 2.5 4.1 7.1 32 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 2.6 4.1 7.1 31 4.5 0.9 2.8 4.3 8.0 247</td> <td> Nean SD Min Med Max n Mean SD Min Med Max n Nean SD Ne</td> <td> Nean SD Min Med Max N Mean SD Min Med Max N Mean Mean M</td> <td> Near SD Min Med Max N Mean SD Min Med Max N Mean SD </td> <td> Mean SD Min Med Max n Mean SD Min Med Max n Mean SD Min </td> <td> Name Name </td>	n Mean SD Min Med Max n Mean 20 5.3 1.2 2.2 5.6 7.4 137 5.0 22 5.2 1.1 3.3 5.4 7.2 178 4.9 19 4.9 1.0 3.4 4.9 7.6 146 4.6 29 4.7 1.1 2.8 4.5 8.1 209 4.3 33 4.6 1.0 3.0 4.5 8.2 222 4.2 32 4.5 0.8 3.4 4.3 7.2 220 4.2 30 4.5 0.7 3.1 4.4 6.2 248 4.3 31 4.5 0.9 2.8 4.3 8.0 247 4.3 31 4.7 1.0 3.3 4.5 8.1 238 4.3 32 4.7 0.9 3.3 4.3 7.5 216 4.3	n Mean SD Min Med Max n Mean SD 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 32 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 30 4.5 0.7 3.1 4.4 6.2 248 4.3 0.8 31 4.7 1.0 3.3 4.5 8.1 238 4.3 0.8 31 4.7 1.0 3.3 4.5 8.1 238 4.3	n Mean SD Min Med Max n Mean SD Min 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 2.1 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 2.5 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 2.5 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 2.3 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 2.5 32 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 2.6 30 4.5 0.7 3.1 4.4 6.2 248 4.3 0.8 2.1 31 4.7 1.0 3.3 4.5 8.1 238 4.3 0.8 2.5 <	n Mean SD Min Med Max n Mean SD Min Med 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 2.1 5.1 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 2.5 5.0 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 2.5 4.5 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 2.3 4.2 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 2.5 4.1 30 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 2.6 4.1 30 4.5 0.7 3.1 4.4 6.2 248 4.3 0.8 2.1 4.2 31 4.5	n Mean SD Min Med Max n Mean SD Min Med Max 20 5.3 1.2 2.2 5.6 7.4 137 5.0 1.2 2.1 5.1 7.8 22 5.2 1.1 3.3 5.4 7.2 178 4.9 1.1 2.5 5.0 7.8 19 4.9 1.0 3.4 4.9 7.6 146 4.6 1.0 2.5 4.5 7.0 29 4.7 1.1 2.8 4.5 8.1 209 4.3 0.9 2.3 4.2 6.8 33 4.6 1.0 3.0 4.5 8.2 222 4.2 0.9 2.5 4.1 7.1 32 4.5 0.8 3.4 4.3 7.2 220 4.2 0.8 2.6 4.1 7.1 31 4.5 0.9 2.8 4.3 8.0 247	Nean SD Min Med Max n Mean SD Min Med Max n Nean SD Ne	Nean SD Min Med Max N Mean SD Min Med Max N Mean Mean M	Near SD Min Med Max N Mean SD Min Med Max N Mean SD	Mean SD Min Med Max n Mean SD Min Med Max n Mean SD Min	Name Name	

Abbreviations: AS = Analysis Set, BL = Baseline, Med = Median, pBL = post Baseline, SD = Standard Deviation

Course of thrombocyte counts (103/µI) and difference to BL for JAK-inhibitor naïve and JAK-inhibitor pretreated



patients (adjusted by 1st visit in the study)

	Mean	SD	Min							d (N=26	, -,	Total (N=433)					
39 4			IVIIII	\mathbf{Med}	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max
39 4																	
	428.3	213.6	58.0	409.0	978.0	251	388.4	202.3	56.0	342.0	991.0	390	402.6	207.0	56.0	364.0	991.0
28 4	442.8	232.7	85.0	401.5	964.0	153	381.2	197.8	50.0	374.0	997.0	281	409.3	216.2	50.0	388.0	997.0
)4 3	394.9	197.9	53.0	369.0	977.0	148	386.4	190.8	88.0	352.0	954.0	252	389.9	193.4	53.0	355.5	977.0
28 4	407.2	188.4	89.0	392.5	971.0	203	377.8	183.4	86.0	342.0	997.0	331	389.2	185.6	86.0	354.0	997.0
37 3	380.8	155.9	63.0	389.0	739.0	224	357.2	165.4	65.0	335.5	894.0	361	366.2	162.1	63.0	364.0	894.0
26 3	371.5	160.1	50.0	380.5	820.0	211	365.1	171.5	63.0	345.0	907.0	337	367.5	167.1	50.0	356.0	907.0
35 3	352.5	158.9	52.0	340.0	780.0	214	360.8	169.1	66.0	330.0	944.0	349	357.6	165.0	52.0	333.0	944.0
25 3	346.1	155.6	56.0	343.0	808.0	199	349.3	139.5	91.0	342.0	718.0	324	348.1	145.7	56.0	342.0	808.0
16 3	348.1	161.2	51.0	331.0	854.0	190	351.8	162.6	53.0	329.5	994.0	306	350.4	161.8	51.0	330.0	994.0
)6 3	363.5	160.1	60.0	348.0	750.0	162	375.3	156.2	99.0	354.0	982.0	268	370.7	157.6	60.0	353.5	982.0
1 3	355.1	167.2	76.0	348.0	958.0	155	366.2	160.6	61.0	351.0	899.0	246	362.1	162.8	61.0	348.5	958.0
51 3	368.3	175.0	66.0	348.0	958.0	264	350.1	173.0	53.0	332.0	962.0	425	357.0	173.8	53.0	335.0	962.0
_																	
2	-7.7	239.1	-640	- 9.0	711.0	143	-11.3	143.3	-454	-2.0	565.0	255	-9.7	190.9	-640	-4.0	711.0
8 -	-47.6	230.3	-635	-13.5	528.0	144	4.7	137.5	-485	8.5	465.0	232	-15.1	179.8	-635	2.5	528.0
11 -	-37.6	209.6	-715	1.0	434.0	189	-16.6	158.9	-672	- 4.0	561.0	300	-24.4	179.3	-715	-3.0	561.0
20 -	-60.9	207.6	-734	-28.5	295.0	210	-35.2	138.0	-743	-13.0	312.0	330	-44.5	166.8	-743	-19.0	312.0
)8 -	-78.2	205.9	-602	-46.5	364.0	200	-32.1	156.6	-567	-18.5	556.0	308	- 48.3	176.5	-602	-28.0	556.0
17 -	-91.4	199.2	-688	-83.0	441.0	201	-26.9	167.5	-464	-10.0	651.0	318	-50.6	182.2	-688	-41.0	651.0
)9 .	-88.0	203.8	-698	-73.0	408.0	185	-35.1	158.6	-601	-11.0	400.0	294	-54.7	178.2	-698	-35.0	408.0
)1	-106	208.6	-733	-69.0	348.0	178	-37.7	157.5	-610	-13.0	494.0	279	-62.4	180.3	-733	-32.0	494.0
3 .	-92.8	219.4	-717	-81.0	446.0	149	-38.5	164.9	-498	- 9.0	607.0	242	-59.4	189.1	-717	-32.5	607.0
7 -	-98.8	205.3	-705	-78.0	335.0	143	-32.0	177.7	-567	-29.0	516.0	220	-55.4	190.1	-705	-38.5	516.0
36 -	-80.5	204.2	-705	-69.5	446.0	249	-42.6	179.8	-743	-27.0	516.0	385	-56.0	189.4	-743	-39.0	516.0
232321013	4	4 394.9 8 407.2 7 380.8 6 371.5 5 352.5 5 346.1 6 348.1 6 363.5 1 368.3 	4 394.9 197.9 8 407.2 188.4 7 380.8 155.9 6 371.5 160.1 5 352.5 158.9 5 346.1 155.6 6 348.1 161.2 6 363.5 160.1 1 355.1 167.2 1 368.3 175.0 2 -7.7 239.1 3 -47.6 230.3 1 -37.6 209.6 0 -60.9 207.6 8 -78.2 205.9 7 -91.4 199.2 9 -88.0 203.8 1 -106 208.6 3 -92.8 219.4 7 -98.8 205.3 6 -80.5 204.2	4 394.9 197.9 53.0 8 407.2 188.4 89.0 7 380.8 155.9 63.0 6 371.5 160.1 50.0 5 352.5 158.9 52.0 5 346.1 155.6 56.0 6 348.1 161.2 51.0 6 363.5 160.1 60.0 1 355.1 167.2 76.0 1 368.3 175.0 66.0 2 -7.7 239.1 -640 3 -47.6 230.3 -635 1 -37.6 209.6 -715 0 -60.9 207.6 -734 8 -78.2 205.9 -602 7 -91.4 199.2 -688 9 -88.0 203.8 -698 1 -106 208.6 -733 3 -92.8 219.4 -717 7	4 394.9 197.9 53.0 369.0 8 407.2 188.4 89.0 392.5 7 380.8 155.9 63.0 389.0 6 371.5 160.1 50.0 380.5 5 352.5 158.9 52.0 340.0 5 346.1 155.6 56.0 343.0 6 348.1 161.2 51.0 331.0 6 363.5 160.1 60.0 348.0 1 355.1 167.2 76.0 348.0 1 368.3 175.0 66.0 348.0 2 -7.7 239.1 -640 -9.0 3 -47.6 230.3 -635 -13.5 1 -37.6 209.6 -715 1.0 0 -60.9 207.6 -734 -28.5 8 -78.2 205.9 -602 -46.5 7 -91.4 199.2 -688 -83.0	4 394.9 197.9 53.0 369.0 977.0 8 407.2 188.4 89.0 392.5 971.0 7 380.8 155.9 63.0 389.0 739.0 6 371.5 160.1 50.0 380.5 820.0 5 352.5 158.9 52.0 340.0 780.0 5 346.1 155.6 56.0 343.0 808.0 6 348.1 161.2 51.0 331.0 854.0 6 363.5 160.1 60.0 348.0 750.0 1 355.1 167.2 76.0 348.0 958.0 1 368.3 175.0 66.0 348.0 958.0 1 368.3 175.0 66.0 348.0 958.0 1 368.3 167.2 76.0 348.0 958.0 1 368.3 167.2 76.0 348.0 958.0 1 -37.6 230.3	4 394.9 197.9 53.0 369.0 977.0 148 8 407.2 188.4 89.0 392.5 971.0 203 7 380.8 155.9 63.0 389.0 739.0 224 6 371.5 160.1 50.0 380.5 820.0 211 5 352.5 158.9 52.0 340.0 780.0 214 5 346.1 155.6 56.0 343.0 808.0 199 6 348.1 161.2 51.0 331.0 854.0 190 6 363.5 160.1 60.0 348.0 750.0 162 1 355.1 167.2 76.0 348.0 958.0 155 1 368.3 175.0 66.0 348.0 958.0 162 1 355.1 167.2 76.0 348.0 958.0 155 1 368.3 175.0 66.0 348.0 958.0	4 394.9 197.9 53.0 369.0 977.0 148 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65.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 6 348.1 161.2 51.0 331.0 854.0 190 351.8 162.6 53.0 6 363.5 160.1 60.0 348.0 958.0 155 366.2 160.6 61.0 1 368.3 175.0 66.0 348.0<td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 6 348.1 161.2 51.0 331.0 854.0 190 351.8 162.6 53.0 329.5 6 363.5 160.1 60.0 348.0 958.0 155 366.2 <t< td=""><td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 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76.0 348.0 958.0 264 350.1 173.0 2 -7.7 239.1	4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 6 348.1 161.2 51.0 331.0 854.0 190 351.8 162.6 53.0 6 363.5 160.1 60.0 348.0 958.0 155 366.2 160.6 61.0 1 368.3 175.0 66.0 348.0 <td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 6 348.1 161.2 51.0 331.0 854.0 190 351.8 162.6 53.0 329.5 6 363.5 160.1 60.0 348.0 958.0 155 366.2 <t< td=""><td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 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63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 63.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 167.1 50.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 944.0 349 357.6 165.0 52.0 6 345.1 161.2 351.0 381.0 389.3 319.5</td></td></t<></td>	4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 6 348.1 161.2 51.0 331.0 854.0 190 351.8 162.6 53.0 329.5 6 363.5 160.1 60.0 348.0 958.0 155 366.2 <t< td=""><td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 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340.0 780.0 214 360.8 169.1 66.0 330.0 944.0 349 357.6 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 718.0 324 348.1 6 345.1</td><td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 252 389.9 193.4 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 185.6 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 167.1 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 718.0 324 348.1 145.7 6 348.1 161.2 51.0 331.0 884.0 190 351.8 162.6 53.0 329.5 994.0</td></t<><td>4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 252 389.9 193.4 53.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 185.6 86.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 63.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 167.1 50.0 5 352.5 158.9 52.0 340.0 780.0 214 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190.8 88.0 352.0 954.0 252 389.9 193.4 53.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 185.6 86.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 63.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 167.1 50.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 944.0 349 357.6 165.0 52.0 6 345.1 161.2 351.0 381.0 389.3 319.5</td>	4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 252 389.9 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 944.0 349 357.6 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 718.0 324 348.1 6 345.1	4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 252 389.9 193.4 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 185.6 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 167.1 5 346.1 155.6 56.0 343.0 808.0 199 349.3 139.5 91.0 342.0 718.0 324 348.1 145.7 6 348.1 161.2 51.0 331.0 884.0 190 351.8 162.6 53.0 329.5 994.0	4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 252 389.9 193.4 53.0 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 185.6 86.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 63.0 6 371.5 160.1 50.0 380.5 820.0 211 365.1 171.5 63.0 345.0 907.0 337 367.5 167.1 50.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 66.0 330.0 944.0 349 357.6 165.0 52.0 6 345.1 161.2 351.0 381.0 389.3 319.5	4 394.9 197.9 53.0 369.0 977.0 148 386.4 190.8 88.0 352.0 954.0 252 389.9 193.4 53.0 355.5 8 407.2 188.4 89.0 392.5 971.0 203 377.8 183.4 86.0 342.0 997.0 331 389.2 185.6 86.0 354.0 7 380.8 155.9 63.0 389.0 739.0 224 357.2 165.4 65.0 335.5 894.0 361 366.2 162.1 63.0 364.0 6 371.5 160.1 50.0 380.0 780.0 214 360.8 169.1 66.0 330.0 944.0 349 357.6 165.0 52.0 330.0 5 352.5 158.9 52.0 340.0 780.0 214 360.8 169.1 660.0 3340.0 349.0 349.3 139.5 91.0 342.0 718.0 324 348.1 <td< td=""></td<>

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, Med = Median, pBL = post Baseline, SD = Standard Deviation

Course of leukocyte counts (103/µI) and difference to BL for JAK-inhibitor naïve and JAK-inhibitor pretreated



patients (adjusted by 1st visit in the study)

AS	JAK-inhibitor naïve (N=165)						JAK-inhibitor pretreated (N=268)							Total (N=433)					
	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	
Course																			
BL	160	16.4	11.8	3.3	13.6	58.8	253	11.9	9.7	2.6	8.9	86.8	413	13.6	10.7	2.6	10.1	86.8	
Month 1	137	13.0	10.7	1.6	9.9	81.0	154	11.7	8.5	3.1	9.0	52.9	291	12.3	9.6	1.6	9.5	81.0	
Month 2	106	9.8	6.9	3.3	8.4	57.1	149	11.7	8.3	3.9	9.0	56.3	255	11.0	7.8	3.3	8.6	57.1	
Month 3	130	10.7	6.7	3.4	8.8	46.8	205	12.1	8.5	3.6	9.7	51.1	335	11.6	7.9	3.4	9.1	51.1	
Month 6	138	12.6	12.1	3.3	9.4	98.8	225	11.3	8.0	2.9	8.7	67.5	363	11.8	9.7	2.9	9.0	98.8	
Month 9	125	11.4	6.2	3.9	9.7	38.2	211	11.0	7.8	2.6	8.5	45.9	336	11.2	7.2	2.6	9.0	45.9	
Month 12	132	10.8	7.2	3.7	8.9	59.7	214	10.9	8.2	2.7	8.4	67.3	346	10.9	7.9	2.7	8.6	67.3	
Month 18	125	10.4	6.7	3.4	8.7	48.9	203	10.1	8.0	1.9	7.9	77.6	328	10.2	7.5	1.9	8.2	77.6	
Month 24	116	10.1	5.9	2.9	8.2	35.2	192	9.9	8.8	3.0	7.8	76.6	308	10.0	7.9	2.9	7.9	76.6	
Month 30	105	10.4	7.4	3.8	8.3	52.6	162	9.1	5.5	3.2	7.6	32.1	267	9.6	6.3	3.2	7.7	52.6	
Month 36	91	10.6	9.1	2.9	7.5	68.9	154	8.8	5.1	2.2	7.7	35.5	245	9.5	6.9	2.2	7.6	68.9	
Last pBL	161	12.1	12.2	2.9	8.7	98.8	261	10.6	8.8	1.9	8.3	76.6	422	11.2	10.2	1.9	8.5	98.8	
Difference t	to BL																		
Month 1	133	-3.9	9.3	-34.0	-1.8	22.4	148	-0.6	5.3	-33.9	-0.3	12.0	281	-2.2	7.6	-34.0	-0.5	22.4	
Month 2	104	-5.6	8.3	-36.0	-2.9	3.8	147	-0.4	5.5	-39.3	0.1	14.5	251	-2.6	7.2	-39.3	-0.7	14.5	
Month 3	126	-5.0	8.4	-35.7	-2.9	14.2	196	-0.2	6.7	-37.2	0.0	35.0	322	-2.1	7.7	-37.2	-0.5	35.0	
Month 6	135	-4.0	10.1	-34.5	-2.4	40.0	215	-0.8	7.0	-46.5	-0.4	23.5	350	-2.0	8.4	-46.5	-0.8	40.0	
Month 9	122	-4.5	9.3	-35.5	-2.9	13.3	204	-0.4	6.8	-51.9	-0.3	18.8	326	-2.0	8.1	-51.9	-0.6	18.8	
Month 12	129	-5.2	9.3	-37.1	-3.6	26.9	207	-0.8	7.2	-53.8	-0.1	24.3	336	-2.5	8.4	-53.8	-1.0	26.9	
Month 18	122	-5.6	10.1	-39.8	-3.3	30.3	195	-1.7	7.0	-53.4	-0.4	18.7	317	-3.2	8.5	-53.4	-1.4	30.3	
Month 24	113	-6.1	10.5	-43.1	-3.5	20.4	185	-1.8	8.1	-54.4	-0.8	28.0	298	-3.4	9.3	-54.4	-1.3	28.0	
Month 30	102	-6.0	11.0	-41.6	-3.5	37.8	154	-1.6	7.6	-53.6	-0.6	23.2	256	-3.4	9.4	-53.6	-1.4	37.8	
Month 36	88	-6.3	11.3	-43.1	-3.4	27.0	147	-2.1	7.2	-53.5	-1.0	23.9	235	-3.7	9.2	-53.5	-1.6	27.0	
Last pBL	157	-4.5	11.0	-43.1	-3.0	40.0	251	-1.4	7.1	-53.5	-0.9	28.0	408	-2.6	8.9	-53.5	-1.6	40.0	

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, Med = Median, pBL = post Baseline, SD = Standard Deviation



Course of leukocyte counts ($10_3/\mu I$) and difference to BL by risk classification (adjusted by 1_{st} application of ruxolitinib)

AS		No	high r	isk (N=4	4 9)		High risk (N=384)							Total (N=433)					
	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	n	Mean	SD	Min	Med	Max	
Course																			
BL	20	13.7	11.6	5.4	10.5	46.9	140	16.8	11.8	3.3	14.2	58.8	160	16.4	11.8	3.3	13.6	58.8	
Month 1	24	10.9	9.4	1.6	8.6	50.2	182	13.3	11.4	2.9	10.1	86.8	206	13.0	11.2	1.6	10.0	86.8	
Month 2	20	11.0	13.4	3.3	7.8	65.3	149	10.2	7.8	2.6	8.4	57.1	169	10.3	8.6	2.6	8.4	65.3	
Month 3	31	8.9	4.5	3.8	8.0	28.0	212	11.1	7.1	3.1	8.9	49.6	243	10.8	6.9	3.1	8.7	49.6	
Month 6	36	11.1	12.8	4.5	7.8	82.4	228	12.5	9.8	3.3	9.9	98.8	264	12.3	10.3	3.3	9.4	98.8	
Month 9	34	8.6	3.9	4.3	7.3	21.3	227	11.9	6.5	3.6	10.3	38.2	261	11.5	6.3	3.6	9.6	38.2	
Month 12	33	7.7	2.9	4.3	6.8	15.6	253	11.6	8.1	3.2	9.2	67.3	286	11.2	7.8	3.2	8.9	67.3	
Month 18	34	8.1	3.7	3.4	7.3	18.4	257	11.1	8.5	2.8	8.9	77.6	291	10.8	8.2	2.8	8.6	77.6	
Month 24	34	8.4	4.2	4.5	7.2	20.1	245	10.6	8.3	2.9	8.2	71.7	279	10.4	7.9	2.9	8.1	71.7	
Month 30	35	8.4	4.2	4.5	7.4	20.6	226	10.2	7.7	2.3	8.4	76.6	261	10.0	7.4	2.3	8.2	76.6	
Month 36	33	7.9	4.1	4.3	6.7	24.8	233	10.0	7.6	2.2	7.5	68.9	266	9.8	7.3	2.2	7.4	68.9	
Month 48	7	8.1	2.6	4.0	9.0	10.6	73	9.1	6.3	3.0	7.1	29.9	80	9.0	6.1	3.0	7.1	29.9	
Month 60	5	15.0	17.5	3.9	8.4	46.1	42	9.7	5.5	3.1	8.9	24.7	47	10.3	7.5	3.1	8.7	46.1	
Month 72	2	8.1	0.4	7.8	8.1	8.4	21	11.8	10.8	4.0	8.6	50.1	23	11.4	10.3	4.0	8.4	50.1	
Last pBL	49	10.4	12.4	3.9	7.2	82.4	375	11.2	9.9	2.2	8.6	98.8	424	11.1	10.2	2.2	8.5	98.8	
Difference	to BL																		
Month 1	18	-3.1	8.5	-34.0	-0.3	4.4	117	-4.0	9.4	-33.1	-1.9	22.4	135	-3.9	9.2	-34.0	-1.8	22.4	
Month 2	13	-0.4	6.8	- 7.9	-0.1	19.5	91	-6.0	8.3	-36.0	-3.3	3.8	104	-5.3	8.3	-36.0	-3.0	19.5	
Month 3	18	-3.3	4.9	-18.9	-2.6	1.1	107	-5.3	8.9	-35.7	-3.4	14.2	125	-5.0	8.4	-35.7	-2.8	14.2	
Month 6	19	-1.1	11.3	-28.1	-0.6	36.6	117	-4.4	9.8	-34.5	-2.7	40.0	136	-4 .0	10.0	-34.5	-2.4	40.0	
Month 9	15	-4.5	7.5	-28.7	-2.9	1.1	106	-4.5	9.6	-35.5	-2.6	13.3	121	-4.5	9.4	-35.5	-2.8	13.3	
Month 12	14	-3.0	3.2	-11.7	-2.0	0.1	114	-5.4	9.8	-37.1	-3.9	26.9	128	-5.2	9.4	-37.1	-3.6	26.9	
Month 18	14	-5.5	8.4	-32.1	-3.8	1.3	108	-5.6	10.3	-39.8	-3.3	30.3	122	-5.6	10.1	-39.8	-3.3	30.3	
Month 24	14	-5.1	7.5	-27.3	-3.6	1.9	99	-6.2	10.8	-43.1	-3.5	20.4	113	-6.1	10.5	-43.1	-3.5	20.4	
Month 30	14	-5.0	7.2	-26.5	-3.1	2.6	87	-6.2	11.6	-41.6	-3.6	37.8	101	-6.0	11.1	-41.6	-3.5	37.8	
Month 36	13	-6.3	8.7	-32.1	-3.8	1.0	75	-6.4	11.8	-43.1	-3.1	27.0	88	-6.3	11.3	-43.1	-3.4	27.0	
Last pBL	20	-2.6	11.8	-32.1	-2.4	36.6	137	-4.8	10.9	-43.1	-3.1	40.0	157	-4.5	11.0	-43.1	-3.0	40.0	

Abbreviations: AS = Analysis Set, BL = Baseline, Med = Median, pBL = post Baseline, SD = Standard Deviation



Number of phlebotomies

Total number of phlebotomies per year stratified by JAK-inhibitor naïve and JAK-inhibitor pretreated patients

AS	JAK-inhibitor	JAK-inhibitor	
	naive	pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Phlebotomies			
0	134 (81.2)	229 (85.4)	363 (83.8)
>0 to ≤0.5	13 (7.9)	18 (6.7)	31 (7.2)
>0.5 to ≤1.0	6 (3.6)	5 (1.9)	11 (2.5)
>1.0 to ≤2.0	5 (3.0)	3 (1.1)	8 (1.8)
More than 2	7 (4.2)	13 (4.9)	20 (4.6)
Total number of			
phlebotomies per year			
n	162	265	427
$Mean \pm SD$	0.3 ± 1.0	0.2 ± 1.1	0.2 ± 1.0
Median (range)	0.0 (0.0 to 11.0)	0.0 (0.0 to 13.4)	0.0 (0.0 to 13.4)

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation

Total number of phlebotomies per year stratified by risk classification

AS Variable	No high risk (N=49)	High risk (N=384)	Total (N=433)
Phlebotomies			
0	40 (81.6)	323 (84.1)	363 (83.8)
>0 to ≤0.5	3 (6.1)	28 (7.3)	31 (7.2)
>0.5 to ≤1.0	-	11 (2.9)	11 (2.5)
>1.0 to ≤2.0	2 (4.1)	6 (1.6)	8 (1.8)
More than 2	4 (8.2)	16 (4.2)	20 (4.6)
Total number of			
phlebotomies per year			
n	49	378	427
$Mean \pm SD$	0.5 ± 1.7	0.2 ± 0.9	0.2 ± 1.0
Median (range)	0.0 (0.0 to 11.0)	0.0 (0.0 to 13.4)	0.0 (0.0 to 13.4)
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Abbreviations: AS = Analysis Set, SD = Standard Deviation



Number of phlebotomies within the last 30 days for JAK-inhibitor naïve and JAK-inhibitor pretreated patients (adjusted by 1st visit in the study)

AS	JAK	-inhibitor n n (%)	-	(5)	JAK-in	nhibitor pre n (%		=268)	Total (N=433) n (%) ^a					
	0	1	2	>2	0	1	2	>2	0	1	2	>2		
Course														
BL	120 (74.1)	34 (21.0)	7 (4.3)	1 (0.6)	237 (91.5)	19 (7.3)	2 (0.8)	1 (0.4)	357 (84.8)	53 (12.6)	9 (2.1)	2 (0.5)		
Month 1	121 (87.1)	17 (12.2)	-	1 (0.7)	155 (93.9)	9 (5.5)	1 (0.6)	-	276 (90.8)	26 (8.6)	1 (0.3)	1 (0.3)		
Month 2	102 (92.7)	6 (5.5)	1 (0.9)	1 (0.9)	146 (95.4)	5 (3.3)	2 (1.3)	-	248 (94.3)	11 (4.2)	3 (1.1)	1 (0.4)		
Month 3	132 (97.1)	4 (2.9)	-	-	208 (97.2)	6 (2.8)	-	-	340 (97.1)	10 (2.9)	-	-		
Month 6	138 (95.8)	5 (3.5)	1 (0.7)	-	224 (97.8)	5 (2.2)	-	-	362 (97.1)	10 (2.7)	1 (0.3)	-		
Month 9	125 (96.9)	4 (3.1)	-	-	207 (96.7)	7 (3.3)	-	-	332 (96.8)	11 (3.2)	-	-		
Month 12	133 (97.8)	2 (1.5)	1 (0.7)	-	213 (98.2)	3 (1.4)	1 (0.5)	-	346 (98.0)	5 (1.4)	2 (0.6)	-		
Month 18	124 (99.2)	1 (0.8)	-	-	201 (98.0)	3 (1.5)	-	1 (0.5)	325 (98.5)	4 (1.2)	-	1 (0.3)		
Month 24	116 (97.5)	3 (2.5)	-	-	193 (99.5)	1 (0.5)	-	-	309 (98.7)	4 (1.3)	-	-		
Month 30	105 (99.1)	1 (0.9)	-	-	163 (98.2)	3 (1.8)	-	-	268 (98.5)	4 (1.5)	-	-		
Month 36	92 (100.0)	-	-	-	149 (96.8)	5 (3.3)	-	-	241 (98.0)	5 (2.0)	-	-		

Abbreviations: AS = Analysis Set, JAK = Janus Kinase

^a Values in parenthesis are percentages per visit.



Number of phlebotomies within the last 30 days stratified by risk classification (adjusted by 1st application of ruxolitinib)

AS	N	No high risk n (%)				High risk (n (%			Total (N=433) n (%)a					
	0	1	2	>2	0	1	2	>2	0	1	2	>2		
Course														
BL	13 (65.0)	7 (35.0)	-	-	107 (75.4)	27 (19.0)	7 (4.9)	1 (0.7)	120 (74.1)	34 (21,0)	7 (4.3)	1 (0.62)		
Month 1	22 (91.7)	1 (4.2)	-	1 (4.2)	162 (87.1)	22 (11.8)	2 (1.1)	-	184 (87.6)	23 (11.0)	2 (1.0)	1 (0.48)		
Month 2	19 (95.0)	-	-	1 (5.0)	142 (91.0)	13 (8.3)	1 (0.6)	-	161 (91.5)	13 (7.4)	1 (0.6)	1 (0.57)		
Month 3	30 (96.8)	1 (3.2)	-	-	211 (95.9)	6 (2.7)	2 (0.9)	1 (0.5)	241 (96.0)	7 (2.8)	2 (0.8)	1 (0.40)		
Month 6	31 (93.9)	2 (6.1)	-	-	236 (96.7)	7 (2.9)	1 (0.4)	-	267 (96.4)	9 (3.3)	1 (0.4)	-		
Month 9	34 (100.0)	-	-	-	225 (96.6)	8 (3.4)	-	-	259 (97.0)	8 (3.0)	-	-		
Month 12	30 (93.8)	2 (6.3)	-	-	254 (98.1)	4 (1.5)	1 (0.4)	-	284 (97.6)	6 (2.1)	1 (0.3)	-		
Month 18	32 (97.0)	1 (3.0)	-	-	254 (97.3)	6 (2.3)	1 (0.4)	-	286 (97.3)	7 (2.4)	1 (0.3)	-		
Month 24	33 (94.3)	2 (5.7)	-	-	246 (98.0)	4 (1.6)	-	1 (0.4)	279 (97.6)	6 (2.1)	-	1 (0.35)		
Month 30	34 (97.1)	1 (2.9)	-	-	229 (99.1)	2 (0.9)	-	-	263 (98.9)	3 (1.1)	-	-		
Month 36	32 (97.0)	1 (3.0)	-	-	232 (98.7)	3 (1.3)	-	-	264 (98.5)	4 (1.5)	-	-		
Month 48	7 (100.0)	-	-	-	70 (98.6)	1 (1.4)	-	-	77 (98.7)	1 (1.3)	-	-		
Month 60	5 (100.0)	-	-	-	40 (95.2)	2 (4.8)	-	-	45 (95.7)	2 (4.3)	-	-		
Month 72	3 (100.0)	-	-	-	21 (100.0)	-	-	-	24 (100.0)	-	-	-		
Month 84	-	-	-	-	-	-	-	-	-	-	-	-		

Abbreviations: AS = Analysis Set, JAK = Janus Kinase

^a Values in parenthesis are percentages per visit.



Spleen palpation

Change in palpable spleen in JAK-inhibitor naïve patients (adjusted by 1st visit in the study)

AS	Palpation performed/enlarged spleen palpable	Median spleen length in cm (range), n (patients with	Median difference to BL in cm (range) n (patients with
Variable	n/n	assessment)	assessment
JAK-inhibitor naïve			
(N=165)			
BL	72/36	11.9 (1.0 to 30.0), n=27	
Month 1	27/12	10.0 (1.0 to 16.0), n=11	-2.0 (-6.0 to 11.0), n=8
Month 2	18/2	5.0 (3.0 to 10.0), n=4	-4.0 (-4.0 to -4.0), n=2
Month 3	41/13	12.0 (4.0 to 20.0), n=14	-2.0 (-10.0 to 0.0), n=8
Month 6	52/20	9.0 (3.0 to 19.0), n=14	-3.5 (-15.0 to 11.5), n=10
Month 9	47/7	5.0 (3.0 to 10.0), n=8	-4.0 (-7.0 to -1.0), n=5
Month 12	47/9	8.0 (2.0 to 13.0), n=10	-2.0 (-17.0 to -1.0), n=7
Month 18	41/12	8.0 (4.0 to 13.0), n=8	-2.0 (-7.0 to -1.0), n=7
Month 24	43/10	7.0 (4.0 to 13.0), n=11	-1.0 (-12.0 to 2.0), n=9
Month 30	26/7	5.0 (4.0 to 7.0), n=5	-3.0 (-14.0 to -2.0), n=5
Month 36	22/5	5.0 (3.0 to 7.0), n=4	-2.5 (-16.0 to -2.0), n=4
Last post BL visit	47/23	10.0 (1.0 to 18.0), n=30	-2.0 (-16.0 to 11.5), n=15



Change in palpable spleen in JAK-inhibitor pretreated patients (adjusted by 1st visit in the study)

AS	Palpation performed/enlarged	Median spleen length in cm (range),	Median difference to BL in cm (range)
	spleen palpable	n (patients with	n (patients with
Variable	\mathbf{n}/\mathbf{n}	assessment)	assessment)
JAK-inhibitor			
pretreated (N=268)			
BL	85/26	12.0 (0.5 to 20.4), n=23	
Month 1	26/6	14.8 (1.0 to 19.5), n=6	0.0 (0.0 to 2.4), n=3
Month 2	21/7	5.0 (1.0 to 20.0), n=7	0.0 (-3.0 to 8.3), n=3
Month 3	50/8	10.0 (3.0 to 20.0), n=9	4.4 (0.0 to 10.0), n=4
Month 6	58/14	13.4 (3.0 to 22.6), n=8	-1.8 (-3.0 to 9.0), n=3
Month 9	58/12	6.2 (1.0 to 11.0), n=4	-3.0 (-5.0 to -1.0), n=2
Month 12	63/13	9.8 (1.0 to 16.5), n=10	-1.0 (-15.4 to 0.0), n=5
Month 18	52/7	9.7 (2.0 to 15.0), n=4	8.3 (8.3 to 8.3), n=1
Month 24	47/6	12.0 (2.0 to 15.6), n=7	-1.5 (-4.0 to 0.0), n=3
Month 30	44/4	12.0 (3.0 to 15.0), n=5	-3.0 (-13.9 to 0.0), n=3
Month 36	48/6	-	-
Last post BL visit	70/26	11.0 (1.0 to 22.6), n=33	0.0 (-13.9 to 9.0), n=12



Sonography

Change in spleen length (by sonography) in JAK-inhibitor na $\ddot{\text{u}}$ patients (adjusted by 1st visit in the study) $\ddot{\text{u}}$

	Sonography performed	Median spleen length in cm (range),	Median difference to BL in cm (range)
Variable	n	n (patients with assessment)	n (patients with assessment
JAK-inhibitor naïve			
(N=165)			
BL	78	15.9 (9.0 to 30.0), n=73	
Month 1	22	16.3 (11.0 to 22.0), n=20	-2.3 (-12.0 to 0.0), n=12
Month 2	16	13.4 (9.9 to 19.0), n=16	-2.3 (-6.0 to -0.3), n=11
Month 3	47	14.0 (8.8 to 23.0), n=40	-1.5 (-8.0 to 1.0), n=23
Month 6	47	15.1 (7.0 to 23.0), n=41	-2.0 (-7.5 to 0.6), n=31
Month 9	57	13.1 (8.0 to 29.0), n=48	-2.5 (-12.0 to 4.0), n=28
Month 12	48	13.0 (7.4 to 21.9), n=42	-2.5 (-8.5 to 2.9), n=27
Month 18	52	13.6 (7.7 to 22.8), n=45	-2.5 (-8.5 to 2.0), n=33
Month 24	53	13.5 (8.0 to 21.0), n=47	-2.8 (-9.0 to 1.8), n=36
Month 30	36	14.0 (9.4 to 20.0), n=32	-2.3 (-9.4 to 1.1), n=26
Month 36	32	12.7 (7.6 to 19.0), n=26	-2.5 (-10.8 to 0.3), n=18
Last post BL visit	56	12.9 (7.0 to 29.0), n=96	-2.4 (-10.8 to 4.0), n=54



Change in spleen length (by sonography) in JAK-inhibitor pretreated patients (adjusted by 1st visit in the study) AS

	Sonography performed	Median spleen length in cm (range),	Median difference to BL in cm (range)
Variable	n	n (patients with assessment)	n (patients with assessment
JAK-inhibitor			
pretreated (N=268)			
BL	90	14.3 (6.7 to 30.0), n=77	
Month 1	21	12.8 (9.0 to 25.0), n=21	-0.6 (-3.2 to 0.1), n=9
Month 2	13	14.7 (9.5 to 26.0), n=11	-3.1 (-4.4 to 1.6), n=7
Month 3	45	13.0 (7.7 to 21.0), n=37	-0.4 (-6.5 to 1.0), n=21
Month 6	59	14.0 (8.5 to 30.0), n=49	-0.8 (-5.7 to 2.7), n=29
Month 9	65	13.3 (8.0 to 27.0), n=56	0.0 (-8.0 to 8.2), n=23
Month 12	64	13.4 (8.2 to 26.0), n=57	-0.9 (-10.0 to 3.4), n=30
Month 18	55	13.0 (7.0 to 22.0), n=47	-1.5 (-7.0 to 7.0), n=23
Month 24	49	12.4 (8.7 to 19.4), n=42	-1.8 (-8.0 to 4.9), n=14
Month 30	54	12.8 (8.0 to 20.5), n=42	-1.7 (-6.0 to 1.5), n=22
Month 36	44	11.6 (9.7 to 21.5), n=38	-1.3 (-7.0 to 7.2), n=18
Last post BL visit	65	13.0 (8.0 to 30.0), n=132	-1.0 (-10.0 to 7.2), n=56



MPN10 questionnaire

Course of MPN10 TSS and difference to BL for JAK-inhibitor naïve and JAK-inhibitor pretreated patients (adjusted by 1st visit in the study)

AS		JA	AK-inhil	bitor naïv	ve (N=16	5)		JAK-inhibitor pretreated (N=268)								
	n	Mean	SD	Min	Med	Max	p-value ^a	n	Mean	SD	Min	Med	Max	p-value ^a	p-value	
Course																
BL	138	30.0	14.7	8.0	28.0	83.0		237	26.5	12.7	1.0	24.0	65.0		0.0153	
Month 1	118	23.9	11.4	7.0	22.0	57.0		135	27.3	14.0	5.0	24.0	73.0		0.0411	
Month 3	79	25.2	12.7	4.0	23.0	56.0		114	26.3	12.6	2.0	24.5	68.0		0.5609	
Month 6	106	24.5	12.7	10.0	20.0	61.0		158	25.6	12.8	0.0	23.0	69.0		0.4638	
Month 12	81	24.4	10.9	6.0	20.0	51.1		130	26.0	13.1	10.0	22.5	70.0		0.3437	
Month 24	73	24.6	13.0	1.0	20.0	63.0		122	27.4	13.1	10.0	25.0	66.0		0.1564	
Month 36	48	23.9	11.5	10.0	22.0	58.0		90	27.0	12.8	10.0	26.0	70.0		0.1646	
Last pBL	138	25.4	12.6	10.0	21.5	63.0		232	27.2	13.0	10.0	26.0	73.0		0.1829	
Difference to	BL															
Month 1	111	-5.9	11.6	-41 .0	-3.0	24.0	<.0001	129	-0.2	11.2	-32.0	0.0	58.7	0.8160	0.0002	
Month 3	71	-5.9	13.0	-37.0	-5.0	24.0	0.0003	114	-0.3	9.5	-29.0	0.0	22.0	0.6987	0.0010	
Month 6	97	-6.0	13.9	-45.0	-5.0	23.0	<.0001	154	-1.4	9.9	-30.0	-1.0	31.0	0.0836	0.0023	
Month 12	72	-5.9	12.9	-42.0	-4.5	26.7	0.0003	126	0.0	11.3	-33.0	-1.0	42.0	0.9621	0.0009	
Month 24	66	-5.7	14.6	-4 8.0	- 4.0	24.0	0.0023	114	1.1	12.4	-27.0	0.2	41.1	0.3395	0.0011	
Month 36	43	-7.1	12.5	- 49.0	-4.0	18.0	0.0006	84	1.9	11.9	-27.0	2.0	38.0	0.1388	0.0001	
Last pBL	126	-4.8	13.3	- 49.0	-4.0	26.7	<.0001	220	0.9	12.0	-30.0	0.0	58.7	0.2609	<.0001	

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, Med = Median, MPN = Myeloproliferative Neoplasm, pBL = post Baseline, SD = Standard Deviation, TSS = Total Symptom Score

MPN-SAF TSS has a possible range of 0 to 100, with 100 representing the highest level of symptom severity.

^a The within-group differences were analysed with a one-sample t-test.

^b The between-group differences were analysed with a two-sample t-test.



Course of MPN10 TSS and difference to BL by high risk classification (adjusted by 1st application of ruxolitinib)

AS			Without	t high ris	k (N=49)			High risk (N=384)							
	n	Mean	SD	Min	Med	Max	p-value ^a	n	Mean	SD	Min	Med	Max	p-value ^a	p-value ^b
Course															
BL	16	33.7	16.1	8.0	30.0	63.0		122	29.5	14.6	10.0	27.0	83.0		0.2927
Month 1	22	28.0	12.2	13.0	24.0	57.0		169	24.7	12.7	1.0	22.0	65.0		0.2483
Month 3	14	27.3	15.5	10.0	23.5	56.0		139	25.0	11.8	4.0	23.0	68.0		0.4992
Month 6	26	28.1	12.5	10.0	27.0	61.0		172	24.7	12.9	9.0	21.0	67.0		0.2145
Month 12	19	25.0	9.8	11.0	20.0	45.0		149	25.6	11.4	6.0	24.0	58.0		0.8312
Month 24	18	27.1	14.5	13.0	22.2	70.0		140	25.6	12.8	1.0	21.0	63.0		0.6362
Month 36	14	29.7	13.1	12.0	28.5	65.0		108	25.5	11.9	10.0	23.0	58.0		0.2207
Month 48	6	34.7	24.9	10.0	29.0	70.0		34	28.2	13.5	10.0	27.7	66.0		0.3481
Month 60	4	29.4	12.4	11.0	34.8	37.0		20	26.1	16.4	10.0	19.5	58.0		0.7123
Month 72	1	43.0		43.0	43.0	43.0		8	21.9	12.6	10.0	20.0	46.0		0.1589
Last pBL	42	28.1	12.6	10.0	27.0	70.0		329	26.0	12.8	10.0	23.0	67.0		0.3253
Difference to	BL														
Month 1	14	-5.8	10.3	-27.0	-3.5	5.0	0.0547	97	-5.9	11.9	-41.0	-2.0	24.0	<.0001	0.9860
Month 3	5	-6.7	15.6	-31.4	-7.0	8.9	0.3901	66	-5.8	13.0	-37.0	-4.5	24.0	0.0005	0.8841
Month 6	14	-7.8	16.0	-34.4	-10.5	14.0	0.0906	83	-5.7	13.6	-45.0	-4.0	23.0	0.0002	0.6065
Month 12	9	-10.3	17.0	-33.4	-10.0	11.0	0.1071	63	-5.2	12.3	-42.0	-4.0	26.7	0.0012	0.2759
Month 24	7	-10.3	17.4	-31.4	- 9.0	21.0	0.1668	59	-5.1	14.3	-48.0	-4.0	24.0	0.0077	0.3780
Month 36	7	- 9.6	14.6	-32.4	-10.0	10.0	0.1313	36	-6.6	12.2	- 49.0	-4.0	18.0	0.0026	0.5587
Last pBL	15	-6.2	12.5	-32.4	- 9.0	14.0	0.0745	111	- 4.6	13.4	- 49.0	-4.0	26.7	0.0005	0.6491

Abbreviations: AS = Analysis Set, BL = Baseline, Med = Median, MPN = Myeloproliferative Neoplasm, pBL = post Baseline, SD = Standard Deviation, TSS = Total Symptom Score

MPN-SAF TSS has a possible range of 0 to 100, with 100 representing the highest level of symptom severity.

^a The within-group differences were analysed with a one-sample t-test.

b The between-group differences were analysed with a two-sample t-test.



Thromboembolic events

Number of thromboembolic events

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Total number of			, ,
thromboembolic events			
per year			
n	162	265	427
$Mean \pm SD$	0.025 ± 0.187	0.019 ± 0.116	0.021 ± 0.147
Median (range)	0.0 (0.0 to 2.1)	0.0 (0.0 to 1.5)	0.0 (0.0 to 2.1)
Total number of			
thromboembolic events,			
n (%)			
0	157 (96.9)	255 (96.2)	412 (96.5)
≥1	5 (3.1)	10 (3.8)	15 (3.5)
Missing values	3	3	6

Abbreviations: AS = Analysis Set, JAK = Janus Kinase, SD = Standard Deviation

Secondary Outcome Result(s)



ECOG performance status

ECOG performance status per visit

	Adjusted	l by 1 st visit in i n (%)	the study	Adjusted by 1 st application of ruxolitinib n (%)			
AS Variable	JAK- inhibitor naive (N=165)	JAK- inhibitor pretreated (N=268)	Total (N=433)	Without high risk (N=49)	High risk (N=384)	Total (N=433)	
ECOG							
BL							
0	60 (45.5)	108 (56.0)	168 (51.7)	7 (46.7)	53 (45.3)	60 (45.5)	
1	65 (49.2)	71 (36.8)	136 (41.8)	7 (46.7)	58 (49.6)	65 (49.2)	
2	7 (5.3)	11 (5.7)	18 (5.5)	1 (6.7)	6 (5.1)	7 (5.3)	
3	-	3 (1.6)	3 (0.9)	-	-	-	
Not done	33	75	108	5	28	33	
Month 1							
0	57 (52.3)	57 (52.3)	114 (52.3)	12 (63.2)	78 (54.5)	90 (55.6)	
1	46 (42.2)	46 (42.2)	92 (42.2)	7 (36.8)	57 (39.9)	64 (39.5)	
2	6 (5.5)	5 (4.6)	11 (5.0)	-	8 (5.6)	8 (4.9)	
3	-	1 (0.9)	1 (0.5)	-	-	-	
Not done	30	62	92	5	43	48	

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-	Adjusted by 1st visit in the study			Adjusted by 1	application	of ruxolitinib
	,	n (%)				
AS	JAK-	JAK-			n (%)	
	inhibitor	inhibitor		Without high		
** * * * * * * * * * * * * * * * * * * *	naive	pretreated	Total	risk	High risk	Total
Variable Month 2	(N=165)	(N=268)	(N=433)	(N=49)	(N=384)	(N=433)
	44 (55 0)	57 (61.2)	101 (50.0)	12 (06 7)	E2 (E1 0)	(((55.5)
0	44 (55.0)	57 (61.3)	101 (58.4)	13 (86.7)	53 (51.0)	66 (55.5)
1	34 (42.5)	31 (33.3)	65 (37.6)	1 (6.7)	49 (47.1)	50 (42.0)
2	2 (2.5)	3 (3.2)	5 (2.9)	1 (6.7)	2 (1.9)	3 (2.5)
3	-	2 (2.2)	2 (1.2)		-	-
Not done	30	. 65	95	5	52	57
Month 3						
0	68 (61.3)	80 (56.7)	148 (58.7)	19 (70.4)	87 (56.1)	106 (58.2)
1	39 (35.1)	55 (39.0)	94 (37.3)	7 (25.9)	59 (38.1)	66 (36.3)
2	4 (3.6)	6 (4.3)	10 (4.0)	1 (3.7)	9 (5.8)	10 (5.5)
Not done	25	76	101	5	65	70
Month 6						
0	65 (58.0)	83 (56.8)	148 (57.4)	21 (72.4)	85 (51.2)	106 (54.4)
1	44 (39.3)	55 (37.7)	99 (38.4)	8 (27.6)	70 (42.2)	78 (40.0)
2	3 (2.7)	6 (4.1)	9 (3.5)	_	10 (6.0)	10 (5.1)
3	-	2 (1.4)	2 (0.8)	_	1 (0.6)	1 (0.5)
Not done	32	87	119	7	78	85
Month 9						
0	57 (57.0)	89 (65.0)	146 (61.6)	19 (65.5)	100 (61.3)	119 (62.0)
1	38 (38.0)	43 (31.4)	81 (34.2)	10 (34.5)	54 (33.1)	64 (33.3)
2	5 (5.0)	5 (3.6)	10 (4.2)	_	9 (5.5)	9 (4.7)
Not done	29	79	108	6	71	77
Month 12						
0	59 (53.2)	86 (59.3)	145 (56.6)	19 (76.0)	109 (58.6)	128 (60.7)
1	45 (40.5)	54 (37.2)	99 (38.7)	6 (24.0)	68 (36.6)	74 (35.1)
2	7 (6.3)	5 (3.4)	12 (4.7)		9 (4.8)	9 (4.3)
Not done	25	77	102	9	75	84
Month 18						-
0	53 (53.5)	76 (56.7)	129 (55.4)	23 (88.5)	96 (53.6)	119 (58.0)
1	39 (39.4)	54 (40.3)	93 (39.9)	3 (11.5)	69 (38.5)	72 (35.1)
2	7 (7.1)	4 (3.0)	11 (4.7)	3 (11.3)	13 (7.3)	13 (6.3)
3	/ (/.1)	4 (3.0)	11 (4.7)	_	1 (0.6)	1 (0.5)
Not done	28	75	103	8	87	95
Not done	28	13	103	8	8/	93



	Adjusted	by 1st visit in	the study	Adjusted by 1st application of ruxolitinib			
		n (%)			n (%)		
AS	JAK-	JAK-					
	inhibitor	inhibitor		Without high			
	naive	pretreated	Total	risk	High risk	Total	
Variable	(N=165)	(N=268)	(N=433)	(N=49)	(N=384)	(N=433)	
Month 24							
0	49 (54.4)	68 (55.3)	117 (54.9)	21 (77.8)	84 (50.9)	105 (54.7)	
1	35 (38.9)	50 (40.7)	85 (39.9)	6 (22.2)	70 (42.4)	76 (39.6)	
2	5 (5.6)	5 (4.1)	10 (4.7)	-	9 (5.5)	9 (4.7)	
3	1 (1.1)	-	1 (0.5)	-	2 (1.2)	2 (1.0)	
Not done	29	74	103	8	89	97	
Month 30							
0	44 (58.7)	55 (56.1)	99 (57.2)	20 (80.0)	82 (55.4)	102 (59.0)	
1	25 (33.3)	38 (38.8)	63 (36.4)	5 (20.0)	56 (37.8)	61 (35.3)	
2	6 (8.0)	5 (5.1)	11 (6.4)	-	9 (6.1)	9 (5.2)	
3	-	-	-	-	1 (0.7)	1 (0.6)	
Not done	31	70	101	10	86	96	
Month 36			•				
0	39 (55.7)	56 (60.2)	95 (58.3)	19 (73.1)	84 (52.5)	103 (55.4)	
1	25 (35.7)	34 (36.6)	59 (36.2)	7 (26.9)	63 (39.4)	70 (37.6)	
2	5 (7.1)	3 (3.2)	8 (4.9)	-	12 (7.5)	12 (6.5)	
3	1 (1.4)	-	1 (0.6)	-	1 (0.6)	1 (0.5)	
Not done	23	66	89	8	80	88	

Abbreviations: AS = Analysis Set, BL = Baseline, ECOG = Eastern Cooperative Oncology Group, JAK = Janus Kinase ECOG performance status: 0= Fully active, able to carry on all pre-disease performance without restriction, 1= Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work, 2= Ambulatory and capable of all selfcare but unable to carry out any work activities; up and about more than 50% of waking hours, 3= Capable of only limited selfcare; confined to bed or chair more than 50% of waking hours, 4 = Completely disabled; cannot carry on any selfcare; totally confined to bed or chair, 5 = Dead



Constitutional symptoms

Course of constitutional symptoms

AS	Adjusted by 1 st visit in the study JAK- JAK-		Adjusted by 1 st application of ruxolitinib Without			
	inhibitor naive	inhibitor pretreated	Total	high risk	High risk	Total
Variable	(N=165)	(N=268)	(N=433)	(N=49)	(N=384)	(N=433)
		Sympt	toms overall, 1	n/N (%)		
BL	83/165 (50.3)	114/268 (42.5)	197/433 (45.5)	11/20 (55.0)	72/145 (49.7)	83/165 (50.3)
Month 1	35/139 (25.2)	41/171 (24.0)	76/310 (24.5)	8/24 (33.3)	59/186 (31.7)	67/210 (31.9)
Month 2	21/110 (19.1)	36/158 (22.8)	57/268 (21.3)	6/20 (30.0)	33/156 (21.2)	39/176 (22.2)
Month 3	32/136 (23.5)	59/217 (27.2)	91/353 (25.8)	11/32 (34.4)	58/220 (26.4)	69/252 (27.4)
Month 6	28/144 (19.4)	51/233 (21.9)	79/377 (21.0)	9/36 (25.0)	53/244 (21.7)	62/280 (22.1)
Month 9	21/129 (16.3)	47/216 (21.8)	68/345 (19.7)	6/35 (17.1)	45/234 (19.2)	51/269 (19.0)
Month 12	19/136 (14.0)	51/222 (23.0)	70/358 (19.6)	8/34 (23.5)	49/261 (18.8)	57/295 (19.3)
Month 18	16/127 (12.6)	40/209 (19.1)	56/336 (16.7)	7/34 (20.6)	45/266 (16.9)	52/300 (17.3)
Month 24	15/119 (12.6)	43/197 (21.8)	58/316 (18.4)	7/35 (20.0)	39/254 (15.4)	46/289 (15.9)
Month 30	11/106 (10.4)	35/168 (20.8)	46/274 (16.8)	8/35 (22.9)	38/234 (16.2)	46/269 (17.1)
Month 36	13/93 (14.0)	25/159 (15.7)	38/252 (15.1)	9/34 (26.5)	37/240 (15.4)	46/274 (16.8)
Month 48	-	-	-	2/7 (28.6)	15/74 (20.3)	17/81 (21.0)
Month 60	-	-	-	2/5 (40.0)	11/42 (26.2)	13/47 (27.7)
Month 72	-	-	-	1/3 (33.3)	8/21 (38.1)	9/24 (37.5)
Last pBL	25/165 (15.2)	49/268 (18.3)	74/433 (17.1)	12/49 (24.5)	68/384 (17.7)	80/433 (18.5)

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, pBL = post Baseline n/N: Number of patients with symptom at visit and number of patients at visit.

SF-36 questionnaire



Difference to BL for SF-36 physical and mental component summary for JAK-inhibitor naïve and JAK-inhibitor pretreated patients (adjusted by 1st visit in the study)

AS		JAK-inhibitor 1	naïve (N=16	55), Physical	l component	summary
Visit	n	Mean ± SD	Min	Med	Max	p-value
BL	135	39.6 ± 11.0	15.4	38.91	59.2	
Month 1: ∆ to BL	104	1.5 ± 7.7	-24.0	0.47	25.2	0.050
Month 3: ∆ to BL	77	2.2 ± 7.2	-17.0	1.95	18.7	0.009
Month 6: Δ to BL	91	2.9 ± 8.3	-21.0	1.53	33.8	0.001
Month 12: Δ to BL	70	3.1 ± 9.3	-19.0	1.28	26.7	0.007
Month 24: Δ to BL	61	2.4 ± 11.3	-28.0	2.32	26.6	0.104
Month 36: Δ to BL	40	5.3 ± 9.0	-14.0	3.94	26.0	<.001
Last pBL: Δ to BL	115	1.8 ± 9.5	-28.0	0.79	26.6	0.047
	JA	K inhibitor pre	treated (N=			ent summary
	n	Mean ± SD	Min	Med	Max	p-value
BL	217	42.5 ± 10.6	17.4	44.51	63.4	
Month 1: Δ to BL	110	0.7 ± 6.1	-15.0	0.00	21.6	0.245
Month 3: Δ to BL	102	-0.9 ± 7.3	-25.0	-0.64	23.3	0.202
Month 6: Δ to BL	132	0.2 ± 8.6	-23.0	-0.24	34.9	0.761
Month 12: Δ to BL	110	-1.6 ± 9.6	-41.0	-1.02	35.2	0.081
Month 24: Δ to BL	95	-2.1 ± 9.6	-28.0	-1.86	23.2	0.033
Month 36: Δ to BL	72	-0.6 ± 8.3	-23.0	-0.97	22.5	0.564
Last pBL: Δ to BL	183	-1.0 ± 9.3	-41.0	-0.91	35.2	0.148
		JAK-inhibitor				
	n	Mean ± SD	Min	Med	Max	p-value
BL	135	43.8 ± 13.7	9.8	46.23	69.7	
Month 1: Δ to BL	104	3.8 ± 12.8	-25.0	1.03	43.9	0.003
Month 3: Δ to BL	77	3.0 ± 12.8	-33.0	1.02	34.8	0.041
Month 6: Δ to BL	91	3.2 ± 12.0	-24.0	0.02	43.1	0.012
Month 12: Δ to BL	70	1.8 ± 12.6	-35.0	1.05	39.2	0.247
Month 24: Δ to BL	61	1.7 ± 14.9	-38.0	0.25	43.3	0.364
Month 36: Δ to BL	40	3.2 ± 15.7	-37.0	1.90	42.1	0.208
Last pBL: Δ to BL	115	2.2 ± 13.9	-38.0	1.34	43.1	0.087
	JA	K inhibitor pre				
	n	Mean ± SD	Min	\mathbf{Med}	Max	p-value
TAT				.v.c.		
BL	217	45.2 ± 12.5	10.1	47.68	65.7	
Month 1: Δ to BL	217 110	45.2 ± 12.5 0.2 ± 9.3	10.1 -25.0	47.68 0.00	65.7 32.2	0.829
Month 1: Δ to BL Month 3: Δ to BL	217 110 102	45.2 ± 12.5 0.2 ± 9.3 1.2 ± 11.1	10.1 -25.0 -41.0	47.68 0.00 0.40	65.7 32.2 34.5	0.294
Month 1: Δ to BL	217 110	45.2 ± 12.5 0.2 ± 9.3	10.1 -25.0	47.68 0.00 0.40 1.89	65.7 32.2	
Month 1: Δ to BL Month 3: Δ to BL Month 6: Δ to BL Month 12: Δ to BL	217 110 102 132 110	45.2 ± 12.5 0.2 ± 9.3 1.2 ± 11.1 1.9 ± 10.2 1.2 ± 12.6	10.1 -25.0 -41.0 -27.0 -39.0	47.68 0.00 0.40 1.89 1.71	65.7 32.2 34.5 38.7 36.7	0.294 0.032 0.330
Month 1: Δ to BL Month 3: Δ to BL Month 6: Δ to BL Month 12: Δ to BL Month 24: Δ to BL	217 110 102 132 110 95	45.2 ± 12.5 0.2 ± 9.3 1.2 ± 11.1 1.9 ± 10.2 1.2 ± 12.6 -0.8 ± 13.1	10.1 -25.0 -41.0 -27.0 -39.0 -47.0	47.68 0.00 0.40 1.89 1.71 -0.90	65.7 32.2 34.5 38.7 36.7 37.0	0.294 0.032 0.330 0.541
Month 1: Δ to BL Month 3: Δ to BL Month 6: Δ to BL Month 12: Δ to BL	217 110 102 132 110	45.2 ± 12.5 0.2 ± 9.3 1.2 ± 11.1 1.9 ± 10.2 1.2 ± 12.6	10.1 -25.0 -41.0 -27.0 -39.0	47.68 0.00 0.40 1.89 1.71	65.7 32.2 34.5 38.7 36.7	0.294 0.032 0.330

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, Med = Median, pBL = post Baseline, SD = Standard Deviation, SF-36 = Short Form-36 Health Survey, Δ = Absolute Difference

SF-36 scores can range from 0 to 100. Higher scores indicate better health status.



Difference to BL for SF-36 physical and mental component summary for patients younger and equal/older than 60 years (adjusted by 1st visit in the study)

AS		Age < 60 yea	ars (N=74),	Physical co	mponent su	mmary
Visit	n	Mean ± SD	Min	Med	Max	p-value
BL	65	41.5 ± 10.6	21.3	42.08	59.5	
Month 1: ∆ to BL	38	2.4 ± 6.4	-14.0	1.00	19.6	0.028
Month 3: ∆ to BL	34	2.0 ± 8.2	-14.0	0.00	18.0	0.172
Month 6: ∆ to BL	50	1.2 ± 9.0	-23.0	0.83	19.5	0.366
Month 12: ∆ to BL	38	1.9 ± 10.8	-41.0	2.26	22.5	0.274
Month 24: ∆ to BL	36	3.6 ± 8.0	-12.0	2.72	21.1	0.010
Month 36: Δ to BL	30	2.9 ± 7.8	-7.8	1.27	23.8	0.050
Last pBL: ∆ to BL	59	2.0 ± 9.1	-41.0	0.47	23.8	0.089
		Age≥60 year	rs (N=359),	Physical co	mponent su	mmary
	n	Mean ± SD	Min	Med	Max	p-value
BL	287	41.4 ± 10.9	15.4	42.81	63.4	
Month 1: ∆ to BL	176	0.8 ± 7.0	-24.0	0.03	25.2	0.131
Month 3: ∆ to BL	145	0.1 ± 7.2	-25.0	-0.05	23.3	0.917
Month 6: ∆ to BL	173	1.4 ± 8.4	-23.0	0.38	34.9	0.033
Month 12: Δ to BL	142	-0.3 ± 9.5	-27.0	-0.12	35.2	0.744
Month 24: Δ to BL	120	-1.6 ± 10.8	-28.0	-1.80	26.6	0.116
Month 36: ∆ to BL	82	1.0 ± 9.4	-23.0	0.88	26.0	0.334
Last pBL: Δ to BL	239	-0.4 ± 9.6	-28.0	-0.33	35.2	0.509
		Age < 60 yea	ars (N=74),	Mental con	nponent sun	nmary
	n	Mean ± SD	Min	Med	Max	p-value
BL	65	40.4 ± 11.8	14.7	40.77	63.3	
Month 1: ∆ to BL	38	3.5 ± 12.7	-25.0	0.99	33.8	0.095
Month 3: ∆ to BL	34	5.9 ± 13.7	-19.0	3.51	32.6	0.017
Month 6: ∆ to BL	50	4.4 ± 10.7	-20.0	4.08	32.2	0.005
Month 12: ∆ to BL	38	5.2 ± 12.1	-17.0	4.52	35.2	0.011
Month 24: ∆ to BL	36	4.3 ± 13.0	-17.0	3.35	32.9	0.058
Month 36: ∆ to BL	30	3.1 ± 15.6	-37.0	2.12	35.6	0.286
Last pBL: ∆ to BL	59	2.3 ± 13.7	-37.0	1.19	35.6	0.202
		Age ≥ 60 yea	rs (N=359)	, Mental cor	nponent sui	nmary
	n	Mean ± SD	Min	Med	Max	p-value
BL	287	45.7 ± 13.1	9.8	49.40	69.7	
Month 1: ∆ to BL	176	1.6 ± 10.9	-25.0	0.24	43.9	0.052
Month 3: ∆ to BL	145	1.0 ± 11.3	-41.0	0.40	34.8	0.265
Month 6: ∆ to BL	173	1.9 ± 11.0	-27.0	1.01	43.1	0.026
Month 12: ∆ to BL	142	0.4 ± 12.5	-39.0	0.40	39.2	0.718
Month 24: ∆ to BL	120	-1.0 ± 13.9	-47.0	-0.65	43.3	0.410
Month 36: ∆ to BL	82	-0.4 ± 14.0	-35.0	-0.16	42.1	0.782
Last pBL: Δ to BL	239	0.7 ± 12.3	-38.0	0.34	43.1	0.381

Abbreviations: AS = Analysis Set, BL = Baseline, Med = Median, pBL = post Baseline, SD = Standard Deviation, SF-36 = Short Form-36 Health Survey, Δ = Absolute Difference

SF-36 scores can range from 0 to 100. Higher scores indicate better health status.



Difference to BL for SF-36 physical and mental component summary for patients with/without spleen enlargement (adjusted by 1st visit in the study)

AS		Spleen not enla	rged (N=32	8), Physical	component	summary	
Visit	n	Mean ± SD	Min	Med	Max	p-value	
BL	265	40.8 ± 10.6	15.4	41.55	63.4		
Month 1: ∆ to BL	162	1.0 ± 6.7	-24.0	0.19	21.6	0.050	
Month 3: ∆ to BL	129	0.7 ± 7.3	-25.0	0.00	23.3	0.257	
Month 6: ∆ to BL	168	1.3 ± 7.5	-19.0	0.31	34.9	0.022	
Month 12: ∆ to BL	139	0.1 ± 9.5	-41.0	0.01	35.2	0.864	
Month 24: ∆ to BL	112	-0.6 ± 10.5	-28.0	-1.38	26.6	0.577	
Month 36: ∆ to BL	77	1.1 ± 9.0	-23.0	0.96	24.8	0.298	
Last pBL: ∆ to BL	223	-0.1 ± 9.7	-41.0	-0.34	35.2	0.848	
		Spleen enlarg	ed (N=105)	, Physical co		ımmary	
	n	Mean ± SD	Min	Med	Max	p-value	
BL	87	43.4 ± 11.2	15.8	47.48	61.2		
Month 1: ∆ to BL	52	1.2 ± 7.8	-15.0	0.00	25.2	0.262	
Month 3: ∆ to BL	50	-0.4 ± 7.7	-16.0	-0.66	15.4	0.726	
Month 6: ∆ to BL	55	1.3 ± 11.1	-23.0	0.96	33.8	0.394	
Month 12: ∆ to BL	41	0.4 ± 10.6	-24.0	0.47	26.7	0.798	
Month 24: ∆ to BL	44	0.1 ± 10.6	-28.0	0.75	23.2	0.942	
Month 36: ∆ to BL	35	2.5 ± 8.9	-14.0	0.99	26.0	0.110	
Last pBL: ∆ to BL	75	0.7 ± 8.7	-20.0	0.49	26.0	0.504	
		Spleen not enla	rged (N=32	28), Mental	component :		
	n	Mean ± SD	Min	Med	Max	p-value	
BL	265	44.3 ± 13.1	9.8	46.88	69.7		
Month 1: ∆ to BL	162	2.0 ± 11.0	-25.0	0.29	43.9	0.023	
Month 3: ∆ to BL	129	2.4 ± 10.6	-33.0	0.80	34.8	0.012	
Month 6: ∆ to BL	168	2.7 ± 10.9	-27.0	1.74	43.1	0.002	
Month 12: ∆ to BL	139	2.4 ± 11.8	-35.0	1.96	39.2	0.019	
Month 24: ∆ to BL	112	1.1 ± 13.1	-38.0	1.24	43.3	0.381	
Month 36: ∆ to BL	77	1.1 ± 13.7	-37.0	2.09	42.1	0.479	
Last pBL: ∆ to BL	223	1.5 ± 12.5	-38.0	1.34	43.1	0.076	
Spleen enlarged (N=105), Mental component summary							
	n	Mean ± SD	Min	Med	Max	p-value	
BL	87	45.8 ± 12.5	12.6	48.25	65.5		
Month 1: ∆ to BL	52	1.9 ± 12.1	-25.0	0.53	37.2	0.273	
Month 3: ∆ to BL	50	0.9 ± 14.6	-41.0	0.23	32.6	0.673	
Month 6: ∆ to BL	55	1.6 ± 11.1	-24.0	1.02	32.2	0.287	
Month 12: ∆ to BL	41	-1.9 ± 14.4	-39.0	-1.44	35.2	0.401	
Month 24: Δ to BL	44	-2.1 ± 15.3	-47.0	-2.39	32.4	0.359	
Month 36: ∆ to BL	35	-0.8 ± 16.0	-35.0	-0.64	37.4	0.768	
Last pBL: ∆ to BL	75	-0.4 ± 12.8	-35.0	-0.46	37.4	0.791	

Abbreviations: AS = Analysis Set, BL = Baseline, Med = Median, pBL = post Baseline, SD = Standard Deviation, SF-36 = Short Form-36 Health Survey, Δ = Absolute Difference

SF-36 scores can range from 0 to 100. Higher scores indicate better health status.



Bone marrow aspiration and biopsies

Number of biopsies by visit and overall (adjusted by 1st visit in the study)

AS	JAK-inhibitor	JAK-inhibitor	
	naive	pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Biopsies performed, n (%)			
BL			
0	55 (33.3)	84 (31.3)	139 (32.1)
1	110 (66.7)	184 (68.7)	294 (67.9)
Month 1			
0	139 (100.0)	170 (99.4)	309 (99.7)
1	-	1 (0.6)	1 (0.3)
Missing	26	97	123
Month 2			
0	109 (99.1)	156 (98.7)	265 (98.9)
1	1 (0.9)	2 (1.3)	3 (1.1)
Missing	55	110	165
Month 3			
0	136 (100.0)	217 (100.0)	353 (100.0)
1	-	-	-
Missing	29	51	80
Month 6			
0	141 (97.9)	230 (98.7)	371 (98.4)
1	3 (2.1)	3 (1.3)	6 (1.6)
Missing	21	35	56
Month 9			
0	126 (97.7)	214 (99.1)	340 (98.6)
1	3 (2.3)	2 (0.9)	5 (1.4)
Missing	36	52	88
Month 12			
0	135 (99.3)	222 (100.0)	357 (99.7)
1	1 (0.7)	-	1 (0.3)
Missing	29	46	75
Month 18			
0	127 (100.0)	203 (97.1)	330 (98.2)
1	_	6 (2.9)	6 (1.8)



JAK-inhibitor	JAK-inhibitor	Total
	-	(N=433)
38	59	97
118 (99.2)	194 (98.5)	312 (98.7)
1 (0.8)	3 (1.5)	4 (1.3)
46	71	117
106 (100.0)	166 (98.8)	272 (99.3)
-	2 (1.2)	2 (0.7)
59	100	159
93 (100.0)	157 (98.7)	250 (99.2)
-	2 (1.3)	2 (0.8)
72	109	181
165	268	433
0.7 ± 0.5	0.8 ± 0.6	0.7 ± 0.6
1.0 (0.0 to 2.0)	1.0 (0.0 to 4.0)	1.0 (0.0 to 4.0)
165	268	433
0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1
0.0 (0.0 to 1.0)	0.0 (0.0 to 1.0)	0.0 (0.0 to 1.0)
	naive (N=165) 38 118 (99.2) 1 (0.8) 46 106 (100.0) - 59 93 (100.0) - 72 165 0.7 ± 0.5 1.0 (0.0 to 2.0)	naive (N=165) pretreated (N=268) 38 59 118 (99.2) 194 (98.5) 1 (0.8) 3 (1.5) 46 71 106 (100.0) 166 (98.8) - 2 (1.2) 59 100 93 (100.0) 157 (98.7) - 2 (1.3) 72 109 165 268 0.7 \pm 0.5 0.8 \pm 0.6 1.0 (0.0 to 2.0) 1.0 (0.0 to 4.0) 165 268 0.1 \pm 0.1 0.1 \pm 0.1 0.0 (0.0 to 1.0) 0.0 (0.0 to 1.0)

Abbreviations: AS = Analysis Set, BL = Baseline, JAK = Janus Kinase, SD = Standard Deviation



Molecular results

Number of performed assessments of JAK2V617F mutation by visit and overall Visits adjusted by 1st visit in the Study

Analysis set						
Variable	JAK-inhibitor naive (N=165)	Pretreated with JAK- inhibitor (N=268)	Total (N=433)			
Biopsies performed						
Baseline, n (%)						
0	23 (13.9)	34 (12.7)	57 (13.2)			
1	142 (86.1)	234 (87.3)	376 (86.8)			
Month 1, n (%)						
0	137 (98.6)	168 (98.2)	305 (98.4)			
1	2 (1.4)	3 (1.8)	5 (1.6)			
missing	26	97	123			
Month 2, n (%)						
0	109 (99.1)	154 (97.5)	263 (98.1)			
1	1 (0.9)	4 (2.5)	5 (1.9)			
missing	55	110	165			
Month 3, n (%)						
0	136 (100.0)	217 (100.0)	353 (100.0)			
1	-	-	-			
missing	29	51	80			



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	Analysis set			
/ariable	JAK-inhibitor naive (N=165)	Pretreated with JAK- inhibitor (N=268)	Total (N=433)	
Month 6, n (%)				
0	142 (98.6)	226 (97.0)	368 (97.6)	
1	2 (1.4)	7 (3.0)	9 (2.4)	
missing	21	35	56	
Month 9, n (%)				
0	127 (98.4)	214 (99.1)	341 (98.8)	
1	2 (1.6)	2 (0.9)	4 (1.2)	
missing	36	52	88	
Month 12, n (%)				
0	133 (97.8)	220 (99.1)	353 (98.6)	
1	3 (2.2)	2 (0.9)	5 (1.4)	
missing	29	46	75	
Month 18, n (%)				
0	125 (98.4)	203 (97.1)	328 (97.6)	
1	2 (1.6)	6 (2.9)	8 (2.4)	
missing	38	59	97	
Month 24, n (%)				
0	117 (98.3)	192 (97.5)	309 (97.8)	
1	2 (1.7)	5 (2.5)	7 (2.2)	
missing	46	71	117	



Analysis set

	Allalysis set			
Variable	JAK-inhibitor naive (N=165)	Pretreated with JAK- inhibitor (N=268)	Total (N=433)	
Month 30, n (%)				
0	105 (99.1)	160 (95.2)	265 (96.7)	
1	1 (0.9)	8 (4.8)	9 (3.3)	
missing	59	100	159	
Month 36, n (%)				
0	93 (100.0)	158 (99.4)	251 (99.6)	
1	-	1 (0.6)	1 (0.4)	
missing	72	109	181	
Assessments per patient (incl. Baseline)				
n	165	268	433	
Mean	1.0	1.0	1.0	
Standard deviation	0.6	0.7	0.6	
Minimum	0.0	0.0	0.0	
25%-Quantile	1.0	1.0	1.0	
Median	1.0	1.0	1.0	
75%-Quantile	1.0	1.0	1.0	
Maximum	5.0	6.0	6.0	



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Analysis set								
Variable	JAK-inhibitor naive (N=165)							
Assessments per patient, n (%)								
0	22 (13.3)	32 (11.9)	54 (12.5)					
1	134 (81.2)	215 (80.2)	349 (80.6)					
2	6 (3.6)	13 (4.9)	19 (4.4)					
3	2 (1.2)	3 (1.1)	5 (1.2)					
4	-	4 (1.5)	4 (0.9)					
5	1 (0.6)	-	1 (0.2)					
6	-	1 (0.4)	1 (0.2)					
Assessments per months (incl. Baseline)								
n	165	268	433					
Mean	0.08	0.06	0.07					
Standard deviation	0.17	0.10	0.13					
Minimum	0.00	0.00	0.00					
25%-Quantile	0.03	0.03	0.03					
Median	0.03	0.03	0.03					
75%-Quantile	0.06	0.06	0.06					
Maximum	1.00	1.00	1.00					



Other Pre-Specified Outcome Result(s)

No data identified.

Post-Hoc Outcome Result(s)

No data identified.

Safety Results

Summary of adverse events by JAK-inhibitor pretreatment

AS	JAK-inhibitor naive	JAK-inhibitor pretreated	Total
Variable	(N=165)	(N=268)	(N=433)
Number of patients with	ı, n (%)		
AE	147 (89.1)	229 (85.4)	376 (86.8)
nsAE	140 (84.8)	212 (79.1)	352 (81.3)
nsADR	88 (53.3)	133 (49.6)	221 (51.0)
nsAEnr	119 (72.1)	186 (69.4)	305 (70.4)
SAE	59 (35.8)	101 (37.7)	160 (37.0)
SADR	12 (7.3)	25 (9.3)	37 (8.5)
SAEnr	54 (32.7)	95 (35.4)	149 (34.4)
Number of events			
AE	798	1172	1970
nsAE	691	934	1625
nsADR	209	264	473
nsAEnr	482	670	1152
SAE	107	238	345
SADR	15	38	53
SAEnr	. 92	200	292

Abbreviations: ADR = Adverse Drug Reaction, AE = Adverse Event, AS = Analysis Set, JAK = Janus Kinase, nr = not related, ns = non-serious, SADR = Serious Adverse Drug Reaction, SAE = Serious Adverse Event

Relationship to ruxolitinib assessed with "ves" by physicians.

AEs without information on relation to study drug or seriousness were considered as related or serious, respectively. Seriousness assessed with "yes" by physicians.



All-Cause Mortality

4 SADRs with fatal outcome (experienced by 4 patients) were reported: in all of them the causality regarding treatment with ruxolitinib was not reported. The 4 PTs were: "death" (thrice) and "chronic lymphocytic leukaemia"

Serious Adverse Events

Overall 8.5% of the patients (n=37) suffered from at least 1 SADR. The incidence of all SADRs (if present in 0.5% or more of the patients) by MedDRA SOC and MedDRA PT is presented below

On SOC level, the most frequent SADRs ($\geq 0.5\%$) were:

- o "Investigations" (2.8%, n=12)
- o "Infections and infestations" (2.1%, n=9)
- o "Neoplasms benign, malignant and unspecified" (1.2%, n=5)
- o "Blood and lymphatic system disorders" (0.7%, n=3)
- o "Cardiac disorders" (0.7%, n=3)
- o "Gastrointestinal disorders" (0.7%, n=3)
- o "General disorders and administration site conditions" (0.7%, n=3)
- o "Nervous system disorders" (0.7%, n=3)
- o "Renal and urinary disorders" (0.5%, n=2)
- "Respiratory, thoracic and mediastinal disorders" (0.5%, n=2)

On PT level, the most frequent SADRs ($\geq 0.5\%$) were:

- o "Hemoglobin decreased" (0.9%, n=4)
- o "Death" (0.7%, n=3)
- o "Weight increased" (0.7%, n=3)
- o "Pneumonia" (0.5%, n=2)
- o "Weight decreased" (0.5%, n=2)

All Adverse Events by primary SOC and most common PTs (≥ 1.0% in any AE, by patient, AS)



	nsAEnr	nsADR	\mathbf{n} s $\mathbf{A}\mathbf{E}$	SAEnr	SADR	SAE	Any AE
Primary SOC (MedDRA v24.1) PT							
Number of patients with at least one AE, n (%)	305 (70.4)	221 (51.0)	352 (81.3)	149 (34.4)	37 (8.5)	160 (37.0)	376 (86.8)
Blood and lymphatic system disorders	88 (20.3)	95 (21.9)	164 (37.9)	12 (2.8)	3 (0.7)	14 (3.2)	170 (39.3)
Anaemia	43 (9.9)	72 (16.6)	107 (24.7)	5 (1.2)	1 (0.2)	6 (1.4)	109 (25.2)
Thrombocytosis	27 (6.2)	7 (1.6)	34 (7.9)	1 (0.2)	-	1 (0.2)	35 (8.1)
Thrombocytopenia	9 (2.1)	16 (3.7)	24 (5.5)	-	1 (0.2)	1 (0.2)	25 (5.8)
Leukocytosis	17 (3.9)	2 (0.5)	19 (4.4)	2 (0.5)	-	2 (0.5)	21 (4.8)
Splenomegaly	9 (2.1)	2 (0.5)	11 (2.5)	2 (0.5)	-	2 (0.5)	13 (3.0)
General disorders and administration site conditions	81 (18.7)	53 (12.2)	120 (27.7)	31 (7.2)	3 (0.7)	34 (7.9)	141 (32.6)
Fatigue	30 (6.9)	20 (4.6)	49 (11.3)	-	-	-	49 (11.3)
Death	-	-	-	18 (4.2)	3 (0.7)	21 (4.8)	21 (4.8)
Drug ineffective	3 (0.7)	17 (3.9)	20 (4.6)	-	-	-	20 (4.6)
Oedema peripheral	13 (3.0)	5 (1.2)	18 (4.2)	-	-	-	18 (4.2)
General physical health deterioration	9 (2.1)	2 (0.5)	11 (2.5)	5 (1.2)	-	5 (1.2)	16 (3.7)
Pyrexia	11 (2.5)	2 (0.5)	13 (3.0)	4 (0.9)	-	4 (0.9)	16 (3.7)
Peripheral swelling	6 (1.4)	1 (0.2)	7 (1.6)	1 (0.2)	-	1 (0.2)	8 (1.8)
Pain	7 (1.6)	-	7 (1.6)	-	-	-	7 (1.6)
Oedema	3 (0.7)	2 (0.5)	5 (1.2)	1 (0.2)	_	1 (0.2)	6 (1.4)
Infections and infestations	95 (21.9)	20 (4.6)	111 (25.6)	40 (9.2)	9 (2.1)	46 (10.6)	140 (32.3)
Nasopharyngitis	27 (6.2)	1 (0.2)	28 (6.5)	-	-	-	28 (6.5)
Herpes zoster	13 (3.0)	10 (2.3)	23 (5.3)	1 (0.2)	1 (0.2)	2 (0.5)	25 (5.8)
Urinary tract infection	10 (2.3)	3 (0.7)	13 (3.0)	4 (0.9)	1 (0.2)	5 (1.2)	18 (4.2)
Pneumonia	2 (0.5)	1 (0.2)	3 (0.7)	11 (2.5)	2 (0.5)	12 (2.8)	15 (3.5)
Bronchitis	9 (2.1)	1 (0.2)	10 (2.3)	2 (0.5)	-	2 (0.5)	11 (2.5)
Cystitis	6 (1.4)	3 (0.7)	9 (2.1)	-	-	-	9 (2.1)
Infection	6 (1.4)	2 (0.5)	8 (1.8)	1 (0.2)	-	1 (0.2)	9 (2.1)
Covid-19	5 (1.2)	-	5 (1.2)	2 (0.5)	-	2 (0.5)	7 (1.6)
Erysipelas	2 (0.5)	-	2 (0.5)	3 (0.7)	1 (0.2)	4 (0.9)	6 (1.4)
Respiratory tract infection	4 (0.9)	2 (0.5)	5 (1.2)	-	-	-	5 (1.2)



	nsAEnr	nsADR	nsAE	SAEnr	SADR	SAE	Any AE
Primary SOC (MedDRA v24.1)							
PT							
Investigations	56 (12.9)	53 (12.2)	101 (23.3)	3 (0.7)	12 (2.8)	15 (3.5)	111 (25.6)
Weight increased	12 (2.8)	25 (5.8)	37 (8.5)	<u>-</u>	3 (0.7)	3 (0.7)	40 (9.2)
Haemoglobin decreased	15 (3.5)	16 (3.7)	29 (6.7)	-	4 (0.9)	4 (0.9)	32 (7.4)
Platelet count increased	7 (1.6)	4 (0.9)	11 (2.5)	-	1 (0.2)	1 (0.2)	12 (2.8)
Weight decreased	7 (1.6)	-	7 (1.6)	-	2 (0.5)	2 (0.5)	9 (2.1)
Blood creatinine increased	4 (0.9)	1 (0.2)	5 (1.2)	-	-	-	5 (1.2)
White blood cell count increased	1 (0.2)	3 (0.7)	4 (0.9)	-	1 (0.2)	1 (0.2)	5 (1.2)
Nervous system disorders	70 (16.2)	40 (9.2)	98 (22.6)	19 (4.4)	3 (0.7)	20 (4.6)	111 (25.6)
Dizziness	22 (5.1)	23 (5.3)	43 (9.9)	1 (0.2)	1 (0.2)	2 (0.5)	44 (10.2)
Headache	11 (2.5)	9 (2.1)	20 (4.6)	-	-	-	20 (4.6)
Paraesthesia	8 (1.8)	3 (0.7)	11 (2.5)	-	-	-	11 (2.5)
Disturbance in attention	3 (0.7)	2 (0.5)	5 (1.2)	1 (0.2)	-	1 (0.2)	6 (1.4
Sciatica	5 (1.2)	-	5 (1.2)	-	-	-	5 (1.2)
Gastrointestinal disorders	71 (16.4)	34 (7.9)	94 (21.7)	18 (4.2)	3 (0.7)	20 (4.6)	107 (24.7)
Abdominal pain upper	16 (3.7)	1 (0.2)	17 (3.9)	3 (0.7)	-	3 (0.7)	19 (4.4)
Diarrhoea	12 (2.8)	7 (1.6)	18 (4.2)	1 (0.2)	-	1 (0.2)	19 (4.4
Constipation	6 (1.4)	12 (2.8)	18 (4.2)	-	-	-	18 (4.2)
Abdominal pain	7 (1.6)	2 (0.5)	8 (1.8)	3 (0.7)	-	3 (0.7)	11 (2.5)
Nausea	8 (1.8)	2 (0.5)	10 (2.3)	-	-	-	10 (2.3)
Abdominal discomfort	7 (1.6)	1 (0.2)	8 (1.8)	-	-	-	8 (1.8)
Abdominal distension	3 (0.7)	5 (1.2)	8 (1.8)	-	-	-	8 (1.8)
Musculoskeletal and connective tissue disorders	72 (16.6)	13 (3.0)	79 (18.2)	12 (2.8)	1 (0.2)	13 (3.0)	86 (19.9)
Arthralgia	21 (4.8)	2 (0.5)	23 (5.3)	1 (0.2)	-	1 (0.2)	24 (5.5)
Bone pain	12 (2.8)	2 (0.5)	14 (3.2)	-	-	-	14 (3.2)
Muscle spasms	11 (2.5)	3 (0.7)	14 (3.2)	-	-	-	14 (3.2
Pain in extremity	12 (2.8)	1 (0.2)	13 (3.0)	-	-	-	13 (3.0
Back pain	8 (1.8)	-	8 (1.8)	3 (0.7)	-	3 (0.7)	11 (2.5
Myalgia	4 (0.9)	3 (0.7)	7 (1.6)	-	-	-	7 (1.6
Intervertebral disc protrusion	3 (0.7)	-	3 (0.7)	3 (0.7)	-	3 (0.7)	6 (1.4
Osteoarthritis	5 (1.2)	-	5 (1.2)	1 (0.2)	-	1 (0.2)	6 (1.4



	nsAEnr	nsADR	nsAE	SAEnr	SADR	SAE	Any AE
Primary SOC (MedDRA v24.1)							
PT							
Skin and subcutaneous tissue disorders	65 (15.0)	20 (4.6)	81 (18.7)	2 (0.5)	-	2 (0.5)	82 (18.9)
Pruritus	22 (5.1)	5 (1.2)	27 (6.2)	-	-	-	27 (6.2)
Rash	10 (2.3)	4 (0.9)	14 (3.2)	-	-	-	14 (3.2)
Night sweats	8 (1.8)	1 (0.2)	9 (2.1)	-	-	-	9 (2.1)
Hyperhidrosis	5 (1.2)	3 (0.7)	8 (1.8)	-	_	-	8 (1.8)
Skin ulcer	6 (1.4)	1 (0.2)	7 (1.6)	-	-	-	7 (1.6)
Skin lesion	3 (0.7)	1 (0.2)	4 (0.9)	1 (0.2)	-	1 (0.2)	5 (1.2)
Respiratory, thoracic and mediastinal disorders	50 (11.5)	13 (3.0)	60 (13.9)	14 (3.2)	2 (0.5)	16 (3.7)	74 (17.1)
Epistaxis	15 (3.5)	5 (1.2)	20 (4.6)	4 (0.9)	-	4 (0.9)	24 (5.5)
Dyspnoea exertional	10 (2.3)	5 (1.2)	15 (3.5)	2 (0.5)	-	2 (0.5)	17 (3.9)
Dyspnoea	13 (3.0)	3 (0.7)	15 (3.5)	1 (0.2)	-	1 (0.2)	16 (3.7)
Cough	9 (2.1)	-	9 (2.1)	-	-	-	9 (2.1)
Pulmonary embolism	-	-	-	5 (1.2)	-	5 (1.2)	5 (1.2)
Neoplasms benign, malignant and unspecified (incl							
cysts and polyps)	35 (8.1)	7 (1.6)	41 (9.5)	34 (7.9)	5 (1.2)	37 (8.5)	71 (16.4)
Basal cell carcinoma	8 (1.8)	2 (0.5)	10 (2.3)	4 (0.9)	1 (0.2)	5 (1.2)	15 (3.5)
Squamous cell carcinoma of skin	7 (1.6)	1 (0.2)	8 (1.8)	4 (0.9)	-	4 (0.9)	12 (2.8)
Squamous cell carcinoma	3 (0.7)	-	3 (0.7)	4 (0.9)	1 (0.2)	5 (1.2)	8 (1.8)
Bowen's disease	2 (0.5)	1 (0.2)	3 (0.7)	2 (0.5)	-	2 (0.5)	5 (1.2)
Vascular disorders	45 (10.4)	8 (1.8)	51 (11.8)	9 (2.1)	1 (0.2)	10 (2.3)	60 (13.9)
Hypertension	24 (5.5)	3 (0.7)	27 (6.2)	-	<u>-</u>	<u>-</u>	27 (6.2)
Haematoma	3 (0.7)	2 (0.5)	5 (1.2)	1 (0.2)	_	1 (0.2)	6 (1.4)
Injury, poisoning and procedural complications	36 (8.3)	-	36 (8.3)	16 (3.7)	1 (0.2)	17 (3.9)	50 (11.5)
Fall	13 (3.0)	-	13 (3.0)	11 (2.5)	-	11 (2.5)	22 (5.1)
Traumatic haematoma	5 (1.2)	-	5 (1.2)	-	-	-	5 (1.2)
Metabolism and nutrition disorders	44 (10.2)	4 (0.9)	48 (11.1)	4 (0.9)	_	4 (0.9)	50 (11.5)
Hyperuricaemia	10 (2.3)	-	10 (2.3)	-	-	-	10 (2.3)
Folate deficiency	8 (1.8)	-	8 (1.8)	-	-	-	8 (1.8)
Gout	6 (1.4)	-	6 (1.4)	-	-	-	6 (1.4)
Iron deficiency	5 (1.2)	1 (0.2)	6 (1.4)	-	-	-	6 (1.4)



	nsAEnr	nsADR	nsAE	SAEnr	SADR	SAE	Any AE
Primary SOC (MedDRA v24.1) PT							
Cardiac disorders	20 (4.6)	5 (1.2)	25 (5.8)	28 (6.5)	3 (0.7)	30 (6.9)	49 (11.3)
Atrial fibrillation	6 (1.4)	-	6 (1.4)	8 (1.8)	-	8 (1.8)	13 (3.0)
Cardiac failure	3 (0.7)	-	3 (0.7)	7 (1.6)	1 (0.2)	8 (1.8)	11 (2.5)
Palpitations	4 (0.9)	2 (0.5)	6 (1.4)	-	-	-	6 (1.4)
Renal and urinary disorders	20 (4.6)	1 (0.2)	21 (4.8)	8 (1.8)	2 (0.5)	10 (2.3)	27 (6.2)
Acute kidney injury	-	-	-	5 (1.2)	-	5 (1.2)	5 (1.2)
Psychiatric disorders	20 (4.6)	4 (0.9)	24 (5.5)	3 (0.7)	-	3 (0.7)	25 (5.8)
Sleep disorder	6 (1.4)	2 (0.5)	8 (1.8)	-	-	-	8 (1.8)
Depression	6 (1.4)	-	6 (1.4)	-	-	-	6 (1.4)
Ear and labyrinth disorders	11 (2.5)	3 (0.7)	13 (3.0)	-	-	-	13 (3.0)
Tinnitus	5 (1.2)	1 (0.2)	6 (1.4)	-	-	-	6 (1.4)
Eye disorders	10 (2.3)	3 (0.7)	13 (3.0)	-	-	-	13 (3.0)
Reproductive system and breast disorders	9 (2.1)	1 (0.2)	10 (2.3)	3 (0.7)	-	3 (0.7)	13 (3.0)
Benign prostatic hyperplasia	3 (0.7)	-	3 (0.7)	2 (0.5)	-	2 (0.5)	5 (1.2)
Surgical and medical procedures	1 (0.2)	1 (0.2)	2 (0.5)	8 (1.8)	-	8 (1.8)	10 (2.3)
Hepatobiliary disorders	5 (1.2)	1 (0.2)	6 (1.4)	3 (0.7)	-	3 (0.7)	8 (1.8)
Endocrine disorders	6 (1.4)	-	6 (1.4)	-	-	-	6 (1.4)

Abbreviations: AS = Analysis Set, ADR = Adverse Drug Reaction, AE = Adverse Event, MedDRA = Medical Dictionary for Regulatory Activities, nr = not related, ns = non-serious, PT = Preferred Term, SADR = Serious Adverse Drug Reaction, SAE = Serious Adverse Event, SOC = System Organ Class

No data identified.

Other Relevant Findings

Not applicable

Conclusion:

This large NIS demonstrated effectiveness and safety of ruxolitinib in patients with PV regardless of prior JAK-inhibitor treatment or BL risk status in a representative real-world cohort.

AEs without information on relation to study drug or seriousness were considered as related or serious, respectively.

Seriousness assessed with "yes" by physicians.

Relationship to ruxolitinib assessed with "yes" by physicians.



Date of Clinical Trial Report

9 April 2024