A Clinical Audit on Compliance with British Society of Haematology Guidelines For Diagnosis And Management Of Philadelphia Negative Myeloproliferative Disorders

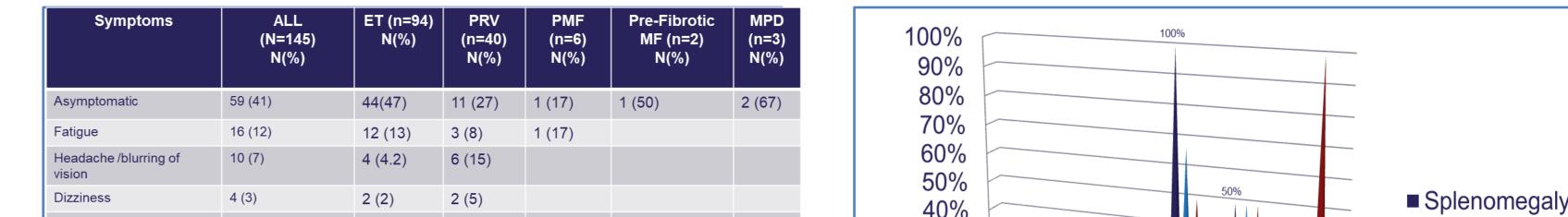
Dr. Farheen Karim, Dr. Erum Mazhar

New Cross Hospital, Cannock Chase Hospital, The Royal Wolverhampton NHS Trust

INTRODUCTION

Myeloproliferative Neoplasms (MPN) are a group of disorders that affect multipotent progenitor cells

WHO classifies MPN based on the presence or absence of the



RESULTS

BCR-ABL fusion gene on the Philadelphia chromosome

Philadelphia-negative MPN include:

- Myelofibrosis (primary, post-PV, post-ET)
- Polycythemia Vera
- Essential Thrombocythemia

OBJECTIVES

Primary objective:

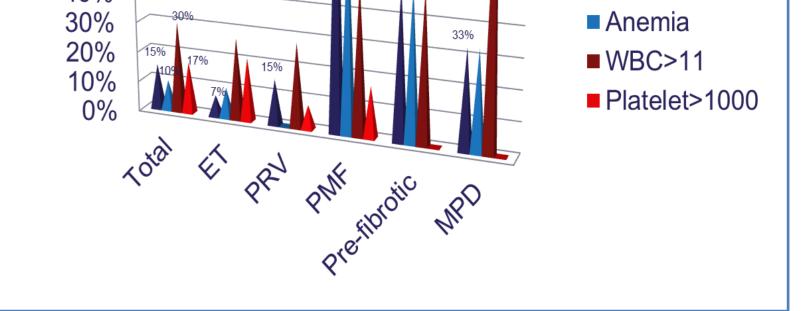
To assess compliance with British society of haematology guidelines for diagnosis and management of Philadelphia negative myeloproliferative disorders

Secondary objectives include the description of:

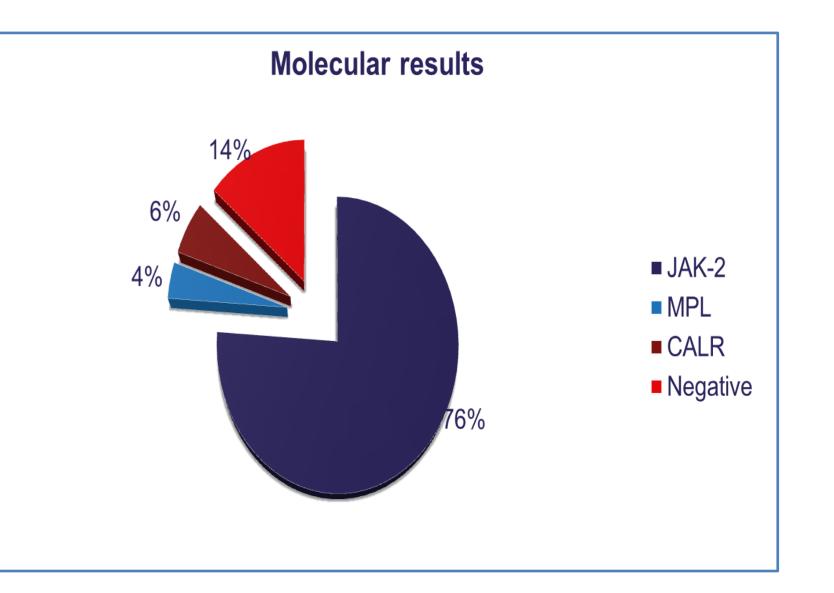
Demographics and clinical characteristics of patients at time of diagnosis.

Type of management strategy

Erythromelalgia	3 (2)	2 (2)	1 (2.5)			
Acquagenic pruritis/pruritis	8 (5.5)	3 (3.2)	5 (12.5)			
Body aches	5 (3)	4 (4.2)	1 (2.5)			
TIA/Stroke	3 (2)	3 (3.2)	0			
Parasthesia	3 (3)	2 (2)	1 (2.5)			
Shortness of breath	4 (3)	1 (1.1)		1 (17)	1 (50)	1 (33)
Unintentional Weight Loss	2 (1.3)	0	0	2 (32)		
PE	1 (0.7)	1 (1.1)	0			
Missing Records	22 (15)	14 (15)	8 (20)			
Not Documented	5 (3)	2 (2)	2 (5)	1 (17)		



Work-up Done	AII	ET	PRV	PMF	Pre- fibrotic MF (n=2)	MPD (n=3)
Bone marrow	96/141 (68%)	69/92 (75)	17/38 (42.5)	6/6 (100)	2 (100)	2 (66.6)
Acute phase Reactant	130/135 (96)	88/89 (99)	34/36 (94)	3/5 (60)	2 (100)	3 (100)
Iron Studies	130/135 (96)	88/89 (99)	34/36 (94)	3/5 (60)	2 (100)	3 (100)
Molecular	141/145 (97.2)	91/94 (97)	39/40 (97.5)	6/6 (100)	2 (100)	3 (100)



MDT Discussion

Risk Stratification

100%
 100 /0



METHODS

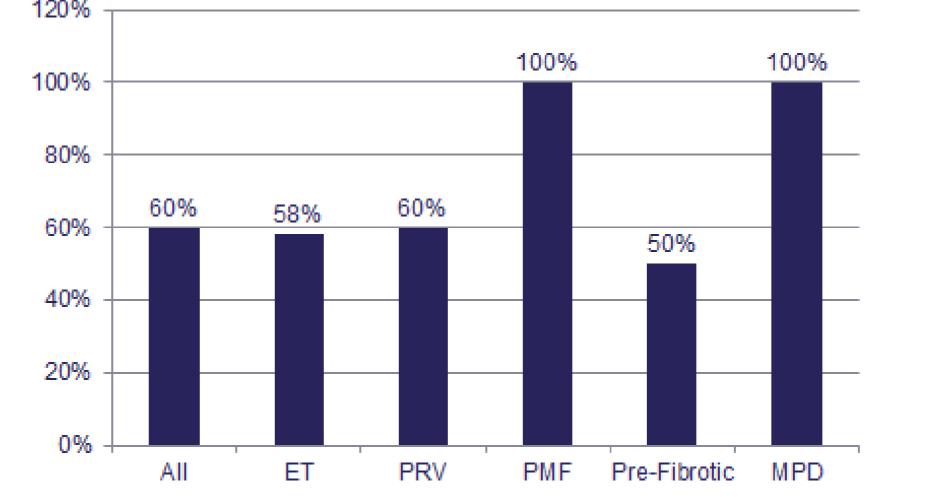
The audit was conducted in the Clinical Haematology Department, New cross Hospital and Cannock chase hospitals Royal Wolverhampton NHS trust.

Record of 145 patients with a diagnosis of MPN (ET, PRV, PMF) was audited

Data Collection Period: August- November 2019

Data on patient demographics, clinical characteristics, management strategies and outcomes were collected from the clinical web portal.





90% - 83% Not 80% - 06% 50% - 47% 40% - 37% - 28% - 47% 20% - 0% - 0 + E T P R V P M F P C e M P D

Management Strategies

Management Strategies	N (%)
Wait and Watch	22 (12)
Hydroxycarbamide	111 (61)
Anagrelide	5 (3)
Ruxolitinib	8 (4)
Busulphan	5 (3)
Radiophosphorus	1(1)
Venesection+Hydroxycarbamide	30 (16)

Disease Transformation

ET 4/94(4.3%)	PR∨ 5/40 (12.5%)
MF (3)	MF (4) All Alive
AML (1)	AML (1) Both Dead

CONCLUSION

Male, n(%)	55 (37)
Female, n(%)	92 (63)
Median Age (years)	67
Age range (years)	34-93
Diagnosis Essential Thrombocythemia (ET), n(%) Polycythemia Rubra Vera (PRV), n(%) Primary Myelofibrosis (PMF), n(%) Pre-fibrotic Myelofibrosis , n(%) Myeloproliferative disorder (MPD), n(%)	94 (65) 40 (28) 6 (4) 2 (1) 3 (2)

Compliance was satisfactory in:

Diagnostic workup

Treatment stratification for cytoreduction in high risk patients

Compliance was found to be poor in following areas:

Doing bone marrow biopsy as part of workup

Recording risk stratification

Documenting prognostic scoring

Discussing cases in MDT



