



MPN – How to talk to patients about MPN?

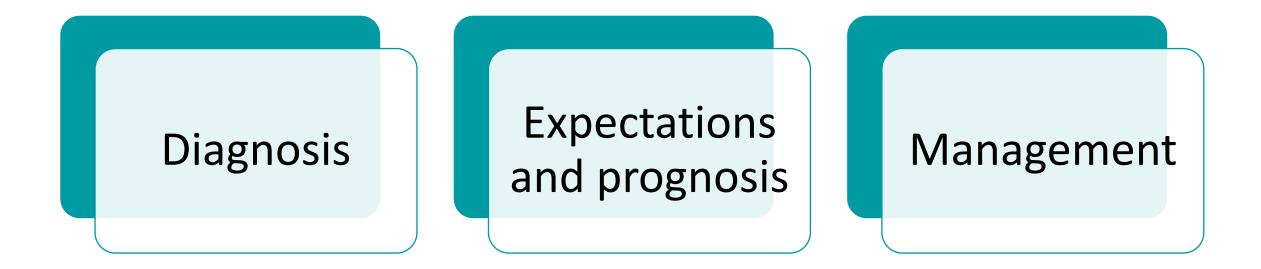
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Conflict of Interest

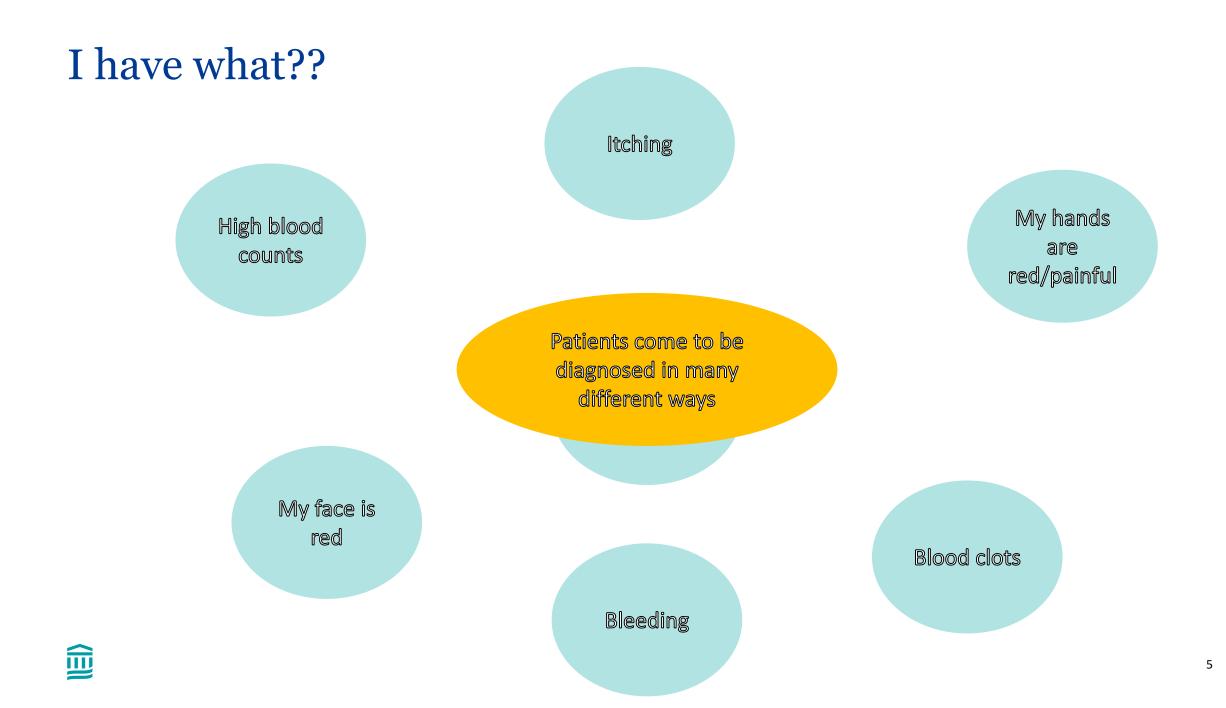
Research funding- Incyte, ASH-AMFDP, MGH PSDA Advisory boards- BMS, Novartis, Pfizer, MorphSys, Abbvie, Pharmaxis, Pharmaessentia

Regeneron- spouse employment

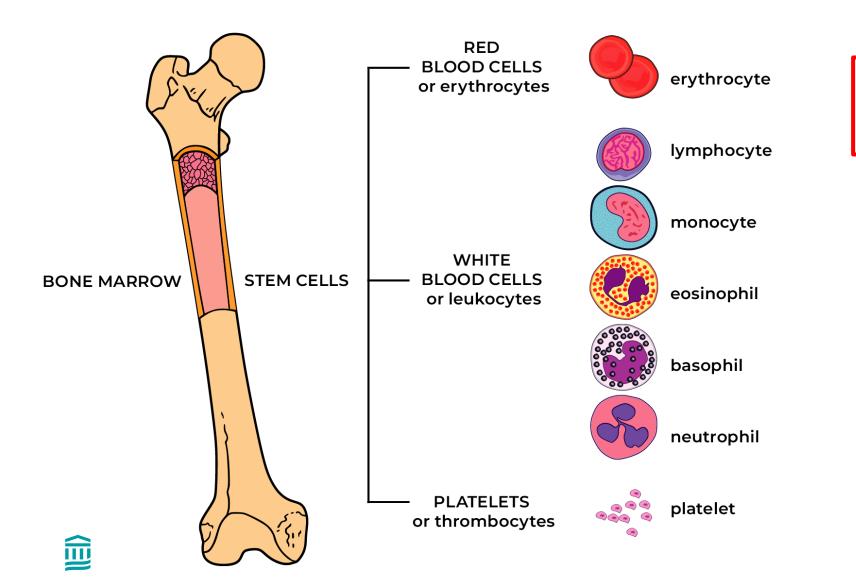
Objectives



Diagnosing MPNs



Talking to patients about a diagnosis



We have to go to the source! Bone marrow biopsy Genetic mutations

So, I have cancer?

What happens after diagnosis?



It can take many visits to the doctor for the patient to fully process the diagnosis



Offering frequent visits and communication is helpful during this period (and in general)



Tension between accepting diagnosis vs starting medical treatment

Starting treatment

Starting treatment

- Discussing treatment initiation can be challenging
 - Fear of side effects
 - Will I be on this forever?
 - What if it doesn't work
 - Is this chemo?
- Patients will do better with treatment if they:
 - Understand their diagnosis
 - Understand why they need treatment
 - Understand what treatment they will take, how to take it, side effects



Expectations from treatment- Big picture

- For PV and ET:
 - Goals: Prevent blood clots/bleeding, improve quality of life, ?prevent progression
- For MF:
 - Goals: Improve symptoms/spleen/QoL, ?improve survival
 - Bone marrow transplant: Cure

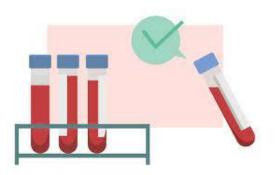




Expectations from treatment- Day to day







Frequent lab draws



Frequent clinic visits

Feeling scared



Side effects From treatment

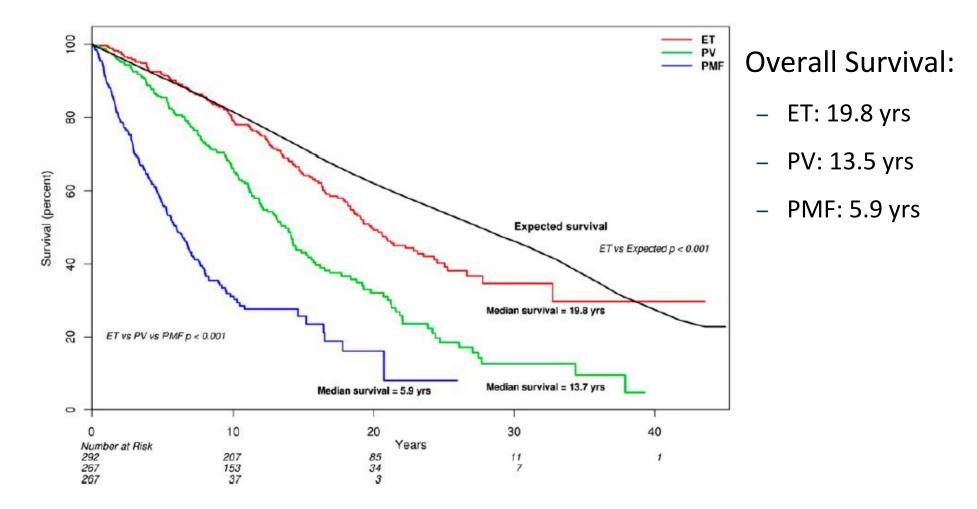
For some.... Watch and wait

- Difficult to reconcile having a disease without treating it
- Watch and wait doesn't mean doing nothing
- Good opportunity to empower patients and emphasize the importance of:
 - Lifestyle modification
 - Managing cardiovascular risk factors
 - Staying up to date with healthcare management



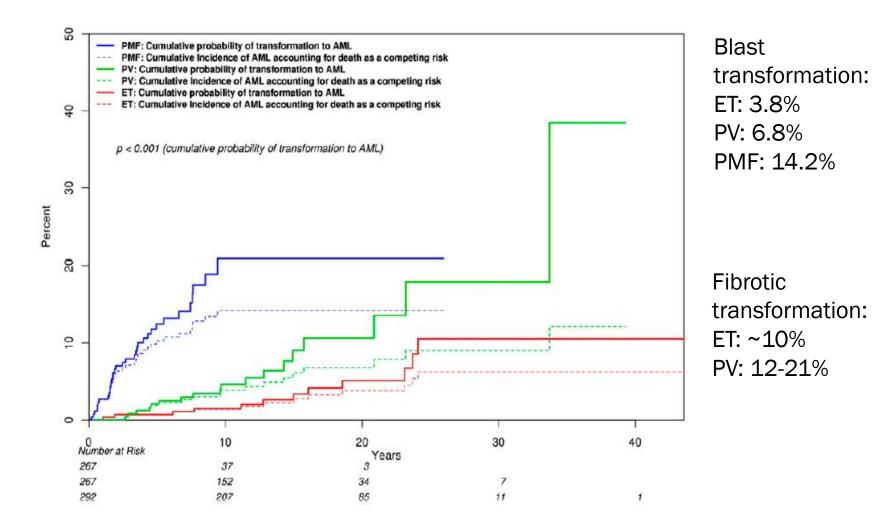
Discussing prognosis

Survival in MPN



Tefferi A, et al. Blood 2014; 124:2507-2513.

Fibrosis and Blast transformation in MPN



Tefferi A, et al. Blood 2014; 124:2507-2513.

Thrombosis risk in ET and PV

Essential Thrombocythemia

Polycythemia Vera

Risk Category	Risk factors	Risk Category	Risk factors
Very Low Risk	None	Low Risk	Age <60 AND no history of thrombosis
Low Risk	JAK2 V617F mutation only	High Risk	Prior thrombosis or age >60
Intermediate Risk	Age >60		
High Risk	Prior thrombosis or age >60 AND JAK2 mutation		

Variables: Age>60, prior thrombosis, JAK2 mutation



Prognostic Scores and Risk Stratification

	Lille	IPSS	DIPSS	DIPSSplus	MIPSS70	GIPSS	MYSEC-PM
Age		Х	х	Х	х		
Leukocytosis	Xa	Х	х	х	х		
Anemia	Х	Х	х	Х	х		Х
Symptoms		Х	х	х	х		х
Circulating blasts		Х	х	Х	х		Х
Thrombocytopenia				х	х		х
RBC transfusion dependent				х			
Adverse Karyotype ^b				х	х	х	
BMF					х		
Non-CALR type 1					Х	Х	х
HMR = 1					Xc	Xq	
HMR > 1					Xc		

BMF, bone marrow fibrosis; DIPSS, Dynamic International Prognsotic Scoring System; HMR, high molecular risk; IPSS, International Prognostic Scoring System; MIPSS; Mutation-Enhanced International Prognostic Scoring System 70; GIPSS, Genetically Inspired Prognostic Scoring System; MYSEC-PM, Myelofibrosis Secondary to PV and ET-Prognostic Model; RBC, red blood cell.

Mascarenhas J, et al. Leukemia, 2023. 37; 255–264



Tension between patient and doctor goals

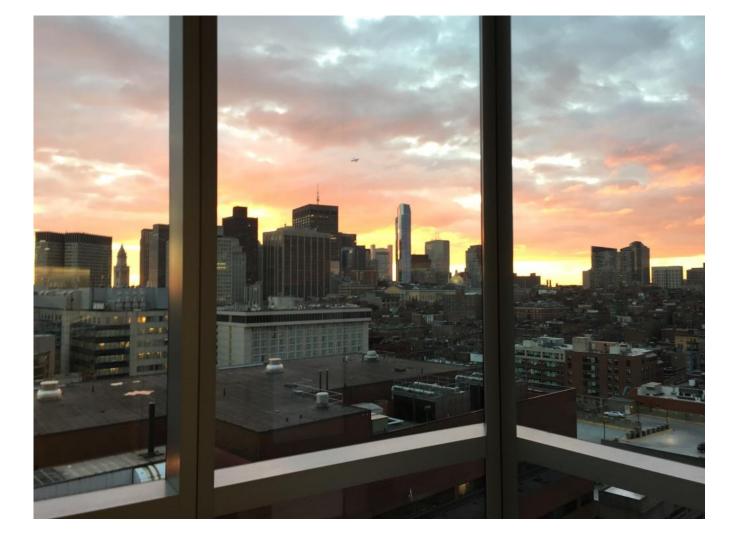
Preventing thrombosis Controlling blood counts Improving symptoms Can't cure outside of transplant How long will I live? Will I feel okay? Can I still work? Have kids? Can I afford the medications? How will I feel with medications?

Summary- Learning to speak the same language

- Diagnosis-
 - Ensuring the patient understands their diagnosis
- Treatment-
 - Ensuring the patient knows WHY they are taking medications
 - Ensuring the patient knows WHAT to expect from treatment
- Prognosis-
 - Ensuring thrombotic risk and survival prognosis are separated and explained
 - Offering additional support when needed from social work, psychology and psychiatry

Thank you







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