

WELCOMING REMARKS SPOTLIGHT ON MYELOPROLIFERATIVE NEOPLASMS (MPNs)



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### DISCLOSURES

SPOTLIGHT ON MYELOPROLIFERATIVE NEOPLASMS (MPNs)

### Aaron T. Gerds, MD, MS

The following relationships have ended and have been mitigated prior to this presentation:

Consulting/Advisory: AbbVie, BMS, CTI Biopharma, Imago, Morphosys, Novartis, PharmaEssentia, Sierra Oncology/GSK

![](_page_2_Figure_7.jpeg)

### 5

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# Objectives

- 1. The different types of MPNs
- 2. Therapies for MPNs
- 3. Current Research and Clinical Trials
- 4. Managing Side Effects

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![](_page_9_Figure_1.jpeg)

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![](_page_10_Figure_1.jpeg)

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![](_page_12_Figure_1.jpeg)

(Recommended for monitoring	ng symptoms during the course of treatment)			
Symptom	1 to 10 (0 if absent) ranking 1 is most favorable and 10 least favorable			
Please rate your fatigue (weariness, tiredness) by circling the one number that best describes your WORST level of fatigue during past 24 hours	(No Fatigue) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Circle the one number difficl ty you ha	r that describes how, during the past week how much we had with each of the following symptoms			
Filling up quickly when you eat (early satiety)	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Abdominal discomfort	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Inactivity	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Problems with concentration- compared to prior to my MPD	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Numbness/Tingling (in my hands and feet)	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Night sweats	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Itching (pruritus)	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)\$			
Bonepain (diffue not joint pain or arthritis)	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			
Fever (>100 F)	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Daily)			
Unintentional weight loss last 6 months	(Absent) 0 1 2 3 4 5 6 7 8 9 10 (Worst Imaginable)			

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![](_page_14_Figure_1.jpeg)

![](_page_14_Figure_2.jpeg)

![](_page_14_Figure_3.jpeg)

# Cause and effect

Elevated red cell mass, extramedullary hematopoiesis, elevated cytokine levels
Presumed 2/2 mast cell degranulation – histamine, prostaglandins, etc(unproven)
Thrombocytosis
Elevated cytokine levels
Splenomegaly (early satiety), elevated cytokine levels
Increased cell turnover
????, IL-6/IL-8, Multifactorial

![](_page_15_Picture_4.jpeg)

# MPNS: "Clinical needs"-oriented current therapy

<ul> <li>Corticosteroids</li> <li>Danazol</li> <li>Erythropoietin (ESAs)</li> <li>JAK inhibitors</li> </ul>	<ul> <li>Thalidomide</li> <li>Lenalidomide</li> <li>Luspatercept</li> </ul>
JAK inhibitors	
Hydroxyurea	<ul><li>IMIDs</li><li>Splenectomy/XRT</li></ul>
Radiation therapy	Hypomethylating agents
Interferon	Hydroxyurea
Low-dose ASA	
JAK inhibitors	Corticosteroids
Hypomethylating agents	
Allo HCT	Ruxolitinib
	<ul> <li>Radiation therapy</li> <li>Interferon</li> <li>Low-dose ASA</li> <li>JAK inhibitors</li> <li>Hypomethylating agents</li> <li>Allo HCT</li> </ul>

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# **MOMENTUM:** Top-line Results

TSS response rate (primary), %       Superiority       24.6       9.2       0.0095         TI rate, %       Non-inferiority       30.8       20.0       0.0064         SRR ≥25%, %       Superiority       40.0       6.2       <0.0001         TSS change from BL*       Superiority       -9.36       -3.13       0.0014         SRR ≥35%, %       Superiority       23.1       3.1       0.0006         Zero transfusion rate, %       Superiority       35.4       16.9       0.0012         *Least-squares mean from mixed model for repeated measures.       *       *	Wk 24 Endpoint	Test	ММВ	DAN	p-value
$\begin{tabular}{ c c c c c } \hline TI \ rate, \ \% & Non-inferiority & 30.8 & 20.0 & 0.0064 & (one-sided) & (one-sided) & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0014 & 0.0012 & 0$	TSS response rate (primary), %	Superiority	24.6	9.2	0.0095
TI rate, %Non-inferiority30.820.0 (one-sided)SRR $\geq$ 25%, %Superiority40.06.2<0.0001		_			0.0064
SRR $\geq$ 25%, %Superiority40.06.2<0.0001TSS change from BL*Superiority-9.36-3.130.0014SRR $\geq$ 35%, %Superiority23.13.10.0006Zero transfusion rate, %Superiority35.416.90.0012*Least-squares mean from mixed model for repeated measures.	TI rate, %	Non-inferiority	30.8	20.0	(one-sided)
TSS change from BL*Superiority-9.36-3.130.0014SRR ≥35%, %Superiority23.13.10.0006Zero transfusion rate, %Superiority35.416.90.0012*Least-squares mean from mixed model for repeated measures.	SRR ≥25%, %	Superiority	40.0	6.2	<0.0001
SRR ≥35%, %Superiority23.13.10.0006Zero transfusion rate, %Superiority35.416.90.0012*Least-squares mean from mixed model for repeated measures.	TSS change from BL*	Superiority	-9.36	-3.13	0.0014
Zero transfusion rate, % Superiority 35.4 16.9 0.0012 *Least-squares mean from mixed model for repeated measures.	SRR ≥35%, %	Superiority	23.1	3.1	0.0006
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	*Least-squares mean from m	ixed model for	repeate	d meas	ures.
	Journal of Clinical Oncology 2022 40:16	suppl, 7002–7002		<b>1</b> @Aa	ranGarda

![](_page_26_Figure_1.jpeg)

![](_page_26_Picture_3.jpeg)

Cleveland Clinic Taussig Cancer Institute

# Objectives

- 1. The different types of MPNs
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![](_page_27_Picture_7.jpeg)

![](_page_28_Picture_1.jpeg)

## **ASK A QUESTION**

SPOTLIGHT ON MYELOPROLIFERATIVE NEOPLASMS (MPNs)

# Ask a question by phone: Press star (\*) 1 on your keypad to ask a question To remove your question press star (\*) 2 on your keypad

# Ask a question by web:

Type your question in the "Ask a question" box under the speaker video window

Due to time constraints, we can only take one question per person. Once you've asked your question, the operator will transfer you back into the audience line.

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# LLS EDUCATION & SUPPORT RESOURCES

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### HOW TO CONTACT US:

To contact an **Information Specialist** about disease, treatment and support information, resources and clinical trials:

Call: (800) 955-4572 Monday to Friday, 9 a.m. to 9 p.m. ET Chat live online: www.LLS.org/InformationSpecialists Monday to Friday, 10 a.m. to 7 p.m. ET Email: www.LLS.org/ContactUs All email messages are answered within one business day.

CLINICAL TRIAL SUPPORT CENTER Work one-on-one with an LLS Clinical Trial Nurse Navigator who will help you find clinical trials and personally assist you throughout the entire clinical-trial process. www.LLS.org/Navigation

![](_page_29_Picture_7.jpeg)

NUTRITION CONSULTATIONS Our registered dietitian has expertise in oncology nutrition and provides free one-on-one consultations by phone or email.

> LEUKEMIA & LYMPHOMA SOCIETY\*

www.LLS.org/Consult.

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![](_page_29_Picture_10.jpeg)

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