Novel and Emerging Therapeutic Strategies in the Management of Hematologic Disorder-Related Anemia

FACULTY INTERVIEWS

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Novel and Emerging Therapeutic Strategies in the Management of Hematologic Disorder-Related Anemia

A Continuing Medical Education Audio Program

OVERVIEW OF ACTIVITY

Several hematologic disorders are associated with anemia that can be linked to ineffective erythropoiesis. This occurs when the marrow cannot maintain adequate red blood cell production or produces defective or immature cells that are incapable of proper functioning. Myelodysplastic syndromes (MDS), myeloproliferative neoplasms and beta thalassemia are examples of disorders often associated with moderate to severe anemia. Few treatment options are available for inherited and acquired disorders of erythropoiesis, and despite significant research gains many uncertainties and clinical challenges persist in regard to the management of related anemia. Thus it is imperative that the oncology community have access to up-to-date medical education programs designed to comprehensively address current therapeutic approaches and promising research that can facilitate effective clinical decision-making.

To bridge the gap between research and patient care, this program features one-on-one discussions with leading hematology-oncology investigators. Upon completion of this CME activity, medical oncologists and hematologists should be able to formulate an up-to-date and more complete approach to the care of patients with anemia associated with hematologic disorders.

LEARNING OBJECTIVES

- Understand the causes and consequences of blood disorder-associated anemia, and use this information to refine disease management and supportive care of patients.
- Describe the biologic rationale for and mechanism of action of erythroid maturation agents (EMAs) in the treatment of anemia secondary to select hematologic disorders, including MDS, beta thalassemia and myelofibrosis.
- Appraise emerging clinical data with the EMA luspatercept in preparation for its potential availability for the management of beta thalassemia and/or low-risk MDS.
- Recognize the importance of screening for iron overload in transfusion-dependent patients, and develop a systematic approach for initiating and delivering iron chelation therapy.
- Analyze the biologic basis for and early research data with gene-based therapies for beta thalassemia.

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CME INFORMATION

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Interview with Rami Komrokji, MD

Tracks 1-22

Track 1	Approved and emerging therapies for patients with transfusion-dependent myelodysplastic syndromes (MDS); mechanism of action of the investi- gational erythroid maturation agent (EMA) luspatercept
Track 2	Design, entry criteria and outcomes of the Phase III MEDALIST trial of luspatercept for the treatment of anemia in patients with very low-, low- or intermediate-risk MDS with ring sideroblasts who require red blood cell (RBC) transfusions
Track 3	Clinical experience with the EMAs luspatercept and sotatercept
Track 4	Potential FDA approval of luspatercept for the management of low-risk MDS
Track 5	Ongoing investigation of luspatercept- based strategies for MDS
Track 6	Investigation of venetoclax in combination with a hypomethylating agent for higher-risk MDS
Track 7	Role of luspatercept in myelofibrosis; predictors of benefit from luspatercept
Track 8	Case: A man in his mid-70s presents with fatigue and dyspnea and is diagnosed with lower-risk MDS with ring sideroblasts
Track 9	Initial workup and diagnosis for patients with MDS
Track 10	Risk stratification in MDS and therapeutic options for patients at lower versus higher risk
Track 11	Clinical experience with EMAs for lower-risk, RBC transfusion- dependent MDS

- Track 12 Monitoring and management of iron overload in patients with lower-risk, RBC transfusion-dependent MDS
- Track 13 Case: A man in his early 60s with lenalidomide-refractory, lower-risk MDS and a del(5q) mutation receives the telomerase inhibitor imetelstat on a clinical trial
- Track 14 Case: A man in his mid-70s with postpolycythemia vera myelofibrosis with anemia and splenomegaly receives initial ruxolitinib therapy
- Track 15 Activity and tolerability of JAK1/2 inhibitors in myelofibrosis
- Track 16 Case: A woman in her mid-70s with myelofibrosis and a JAK2 mutation presents with progressive splenomegaly and anemia and receives ruxolitinib
- Track 17 Novel agents and strategies under investigation for myeloproliferative neoplasms (MPNs)
- Track 18 Incidence of IDH1/2 mutations in patients with MPNs; responses to IDH1/2 inhibitors and ongoing clinical investigations
- Track 19 Activity of the antifibrotic immunomodulator PRM-151 in patients with myelofibrosis
- Track 20 Common misconceptions about the use of erythropoietin-stimulating agents
- Track 21 Perspective on the appropriate choice of therapy for patients with intermediate-2 or high-risk myelofibrosis
- Track 22 Lack of correlation between JAK2 mutation status and response to ruxolitinib

Interview with Maria-Domenica Cappellini, MD

Tracks 1-15

Irack 1	Pathophysiology of thalassemia
Track 2	Evolution of therapies for thalassemia
Track 3	Prevalence and incidence of thalas- semia
Track 4	Classification and genetic inheritance of thalassemia
Track 5	Novel treatments under investigation for thalassemia; role of gene therapy and EMAs

- Track 6 Emerging data with luspatercept and sotatercept for patients with thalassemia
- Track 7 Results of the Phase III BELIEVE trial evaluating luspatercept versus placebo for adult patients with beta thalassemia who require regular RBC transfusions
- Track 8
 Tolerability and side effects associated with luspatercept

Interview with Dr Cappellini (continued)

- Track 9 Ongoing Phase II BEYOND study evaluating the efficacy and safety of luspatercept in adults with beta thalassemia who are not transfusion dependent
- Track 10 Activity of luspatercept in patients with anemia of chronic disease and MDS
- Track 11 Effect of luspatercept on quality of life for patients with thalassemia
- Track 12 Optimal selection of patients with thalassemia who would benefit from luspatercept
- Track 13 Gene therapy for transfusiondependent beta thalassemia
- Track 14
 Gene therapy process for patients with thalassemia
- Track 15
 Perspective on novel approaches to the treatment of thalassemia

Video Program

View the corresponding video interviews with (from left) Drs Komrokji and Cappellini by Dr Love at www.ResearchToPractice.com/Anemia19/Video



Have Questions or Cases You Would Like Us to Pose to the Faculty?

<image>

SELECT PUBLICATIONS

A phase I/II study evaluating safety and efficacy of autologous hematopoietic stem cells genetically modified with GLOBE lentiviral vector encoding for the human beta-globin gene for the treatment of patients affected by transfusion dependent beta-thalassemia. NCT02453477

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POST-TEST

Novel and Emerging Therapeutic Strategies in the Management of Hematologic Disorder-Related Anemia

QUESTIONS (PLEASE CIRCLE ANSWER):

- 1. Which of the following statements is true regarding the Phase III MEDALIST study investigating luspatercept in the treatment of anemia?
 - a. Eligible patients included those with high-risk MDS
 - b. No new safety signals were identified in the luspatercept arm
 - c. About 40% of patients who received luspatercept attained RBC transfusion independence
 - d. All of the above
 - e. Both b and c
 - f. Both a and c

2. Sotatercept has demonstrated activity in the treatment of anemia associated with which of the following diseases?

- a. Myelofibrosis
- b. Thalassemia
- c. MDS
- d. All of the above
- 3. The ongoing Phase II BEYOND study is evaluating the efficacy and safety of luspatercept in adult patients with beta thalassemia who ______ transfusion dependent.
 - a. Are
 - b. Are not
- The BELIEVE trial demonstrated significant reductions in RBC transfusion burden with luspatercept in comparison to placebo for adult patients with transfusion-dependent beta thalassemia.
 - a. True
 - b. False
- 5. Which of the following statements most accurately describes the mechanism of action of luspatercept?
 - a. It inhibits VEGF receptors
 - b. It inhibits several ligands in the TGF-beta superfamily
 - c. It is an inhibitor of JAK1/2

- 6. The TELESTO trial evaluating deferasirox versus placebo for patients with low- or intermediate-1-risk MDS _______ its composite primary endpoint of time to death or first nonfatal event associated with cardiac or liver function or transformation to acute myeloid leukemia.
 - a. Met
 - b. Did not meet
- 7. Which of the following statements is true regarding the splicing factor SF3B1 gene mutation?
 - a. It is associated with benefit from luspatercept
 - b. It occurs with high frequency in patients with anemia with ring sideroblasts
 - c. It is associated with adverse outcomes among patients with MDS
 - d. All of the above
 - e. Both a and b
- 8. The ongoing Phase III COMMANDS trial is comparing ______ to an erythropoietin-stimulating agent for the treatment of anemia associated with MDS.
 - a. Luspatercept
 - b. Sotatercept
 - c. Aflibercept
- 9. Which of the following drug types best reflects the mechanism of action of PRM-151?
 - a. Antifibrotic immunomodulator
 - b. JAK2 inhibitor
 - c. PI3-kinase inhibitor
- 10. The JAK2/FLT3 inhibitor pacritinib does not confer significant benefit in terms of reduction in spleen volume and improvement in constitutional symptoms for patients with myelofibrosis and thrombocytopenia.
 - a. True
 - b. False

EDUCATIONAL ASSESSMENT AND CREDIT FORM

Novel and Emerging Therapeutic Strategies in the Management of Hematologic Disorder-Related Anemia

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Pathophysiology of beta thalassemia and	nd emerging da	ata with gene th	nerapy	4 3 2 1	432	1
Key efficacy findings from the BELIEV for beta thalassemia	E trial investiga	ting luspaterce	pt	4321	432	1
Novel agents and strategies under inve	stigation for m	yelofibrosis		4321	432	1
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Faculty	Knowledg	ge of s	subjec	ct matter	Effect	ive	ness a	as an	educator	
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Maria-Domenica Cappellini, MD	4	3	2	1		4	3	2	1	
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Neil Love, MD	4	3	2	1		4	3	2	1	

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