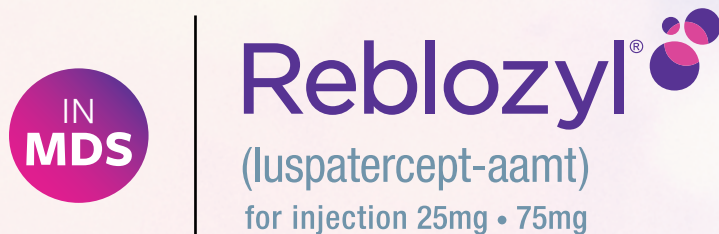




DISCOVER THE FIRST AND ONLY ERYTHROID MATURATION AGENT

FDA APPROVED FOR ANEMIA



for patients with ring sideroblasts who are
failing an ESA and require ≥ 2 RBC units/8 weeks¹

REBLOZYL is indicated for the treatment of anemia failing an erythropoiesis stimulating agent and requiring 2 or more red blood cell units over 8 weeks in adult patients with very low- to intermediate-risk myelodysplastic syndromes with ring sideroblasts (MDS-RS) or with myelodysplastic/myeloproliferative neoplasm with ring sideroblasts and thrombocytosis (MDS/MPN-RS-T).

REBLOZYL is not indicated for use as a substitute for RBC transfusions in patients who require immediate correction of anemia.

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

Thrombosis/Thromboembolism

In adult patients with beta thalassemia, thromboembolic events (TEE) were reported in 8/223 (3.6%) REBLOZYL-treated patients. TEEs included deep vein thrombosis, pulmonary embolus, portal vein thrombosis, and ischemic stroke. Patients with known risk factors for thromboembolism (splenectomy or concomitant use of hormone replacement therapy) may be at further increased risk of thromboembolic conditions. Consider thromboprophylaxis in patients at increased risk of TEE. Monitor patients for signs and symptoms of thromboembolic events and institute treatment promptly.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.



Myelodysplastic syndromes (MDS) are a heterogeneous group of myeloid malignancies characterized by multilineage cytopenias, including anemia²



THE WORLD HEALTH ORGANIZATION (WHO) CLASSIFIES MDS AS NEOPLASTIC AND THEREFORE CANCER³

- MDS are characterized by:
 - Bone marrow dysfunction^{3,4}
 - Dysplasia^{3,4}
 - Genomic instability³
 - Peripheral blood cytopenias^{3,4}
 - Ineffective hematopoiesis⁴



ANEMIA IS PRESENT IN THE MAJORITY OF PATIENTS WITH MDS²

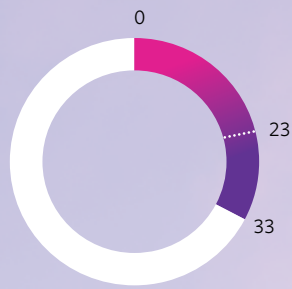
- At diagnosis, anemia is the most common cytopenia present in patients with MDS^{2*}
- 94% of patients with MDS received red blood cell (RBC) transfusions in the SEER-Sound registry of 783 patients from 2001 to 2007⁵
 - 13% of all patients with MDS requiring RBC transfusions had ring sideroblasts⁵

*Determined in a database analysis of 7012 patients with untreated MDS from 11 countries for the International Working Group for the Prognosis of MDS (IWG-PM) project.²



BASED ON THE NCCN CLINICAL PRACTICE GUIDELINES IN ONCOLOGY (NCCN GUIDELINES[®]), MDS MANAGEMENT APPROACHES DIFFER ACCORDING TO MDS SUBTYPE AND SEVERITY OF DISEASE⁶

Patients with MDS may also have ring sideroblasts⁷



23%-33%

of patients with MDS have ring sideroblasts⁷

RING SIDEROBLASTS ARE PART OF THE WHO 2016 CLASSIFICATION OF MDS⁸

- The WHO 2016 recognizes 2 MDS subtypes specific to ring sideroblasts⁸:
 - MDS-RS with single lineage dysplasia (MDS-RS-SLD)
 - MDS-RS with multilineage dysplasia (MDS-RS-MLD)
- MDS-RS subtype is identified with <5% bone marrow blasts and either⁸:
 - ≥15% ring sideroblasts in the bone marrow
 - ≥5% ring sideroblasts in the bone marrow and the presence of an *SF3B1* mutation (identified through molecular testing)
- MDS-RS is recognized as part of the ICD-10-CM coding system⁹
- Ring sideroblasts may also be present at any level in other subtypes of MDS¹⁰
- MDS/MPN-RS-T is a rare subtype recognized by the WHO 2016. It has similarities to MDS-RS but is characterized by specific clinical features^{8,11}
 - These include anemia, bone marrow dysplasia with ring sideroblasts, and persistent thrombocytosis $\geq 450 \times 10^9/L$ with proliferation of large and morphologically atypical megakaryocytes⁸

ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification.

RING SIDEROBLASTS ARE ERYTHROBLASTS WITH IRON-LOADED MITOCHONDRIA ASSOCIATED WITH ANEMIA¹⁰



For illustrative purposes only.

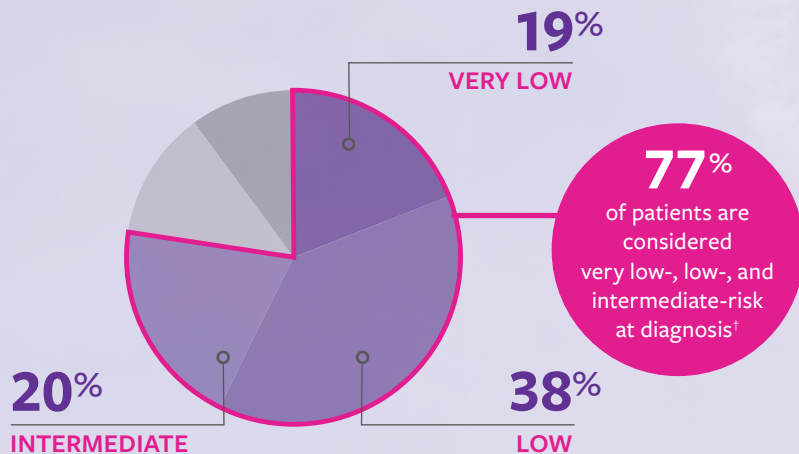
- Ring sideroblasts are identified by iron staining and the results can be found on pathology reports¹⁰
- There is variability in how pathologists describe the presence of ring sideroblasts in pathology reports¹²

Consult with your pathologist about how ring sideroblasts are reported in your patients with MDS

The IPSS-R categorization is the preferred* prognostic system of the NCCN Guidelines^{®6}

THE MAJORITY OF PATIENTS WITH MDS HAVE IPSS-R VERY LOW- TO INTERMEDIATE-RISK DISEASE AT DIAGNOSIS²

Distribution of patients with MDS by IPSS-R risk status (N = 7012)[†]



*The NCCN Guidelines for MDS also note that other risk stratification systems have good value.⁶

[†]Distribution of the IPSS-R risk scores at time of diagnosis evaluated in the recently diagnosed patient cohort; (N = 7012) for the patient population included in the IPSS-R analysis.²

IPSS-R IS BASED ON BONE MARROW CYTOGENETICS, MARROW BLAST PERCENTAGE, AND PRESENCE AND DEPTH OF CYTOPENIAS²

Prognostic score values ²							
Prognostic variable	0	0.5	1	1.5	2	3	4
BM blasts, %	≤2	—	>2 to <5	—	5 to 10	>10	—
Cytogenetics	Very good	—	Good	—	Intermediate	Poor	Very poor
Hgb, g/dL	≥10	—	8 to <10	<8	—	—	—
Platelets, × 10 ⁹ cells/L	≥100	50 to <100	<50	—	—	—	—
ANC, × 10 ⁹ cells/L	≥0.8	<0.8	—	—	—	—	—

IPSS-R prognostic risk categories/scores ²				
Very low	Low	Intermediate	High	Very high
≤1.5	>1.5–3	>3–4.5	>4.5–6	>6

AN IPSS-R SCORE IS CALCULATED BY ADDING THE VALUES FOR THE PROGNOSTIC FACTORS TOGETHER. AN EXAMPLE OF AN IPSS-R LOW-RISK SCORE:

- 2% blast count = 0
- Good cytogenetics = 1
- 8 g/dL Hgb = 1
- Platelets 75 × 10⁹ cells/L = 0.5
- ANC 0.9 × 10⁹ cells/L = 0

Total values added together = 2.5

Ineffective erythropoiesis is an underlying cause of anemia in MDS¹³

ANEMIA IN MDS IS LINKED TO BONE MARROW DYSFUNCTION CHARACTERIZED AS INEFFECTIVE ERYTHROPOIESIS¹⁴

- In MDS, stem cells lack the ability for differentiation and maturation, resulting in bone marrow dysfunction and poor blood cell production, in particular RBCs



INEFFECTIVE ERYTHROPOIESIS IN MDS MAY LEAD TO ANEMIA REQUIRING RBC TRANSFUSIONS, AND IS CHARACTERIZED BY^{13,15}:



Increased proliferation of erythroid progenitors



Increased death of erythroid precursors



Impaired erythroid maturation

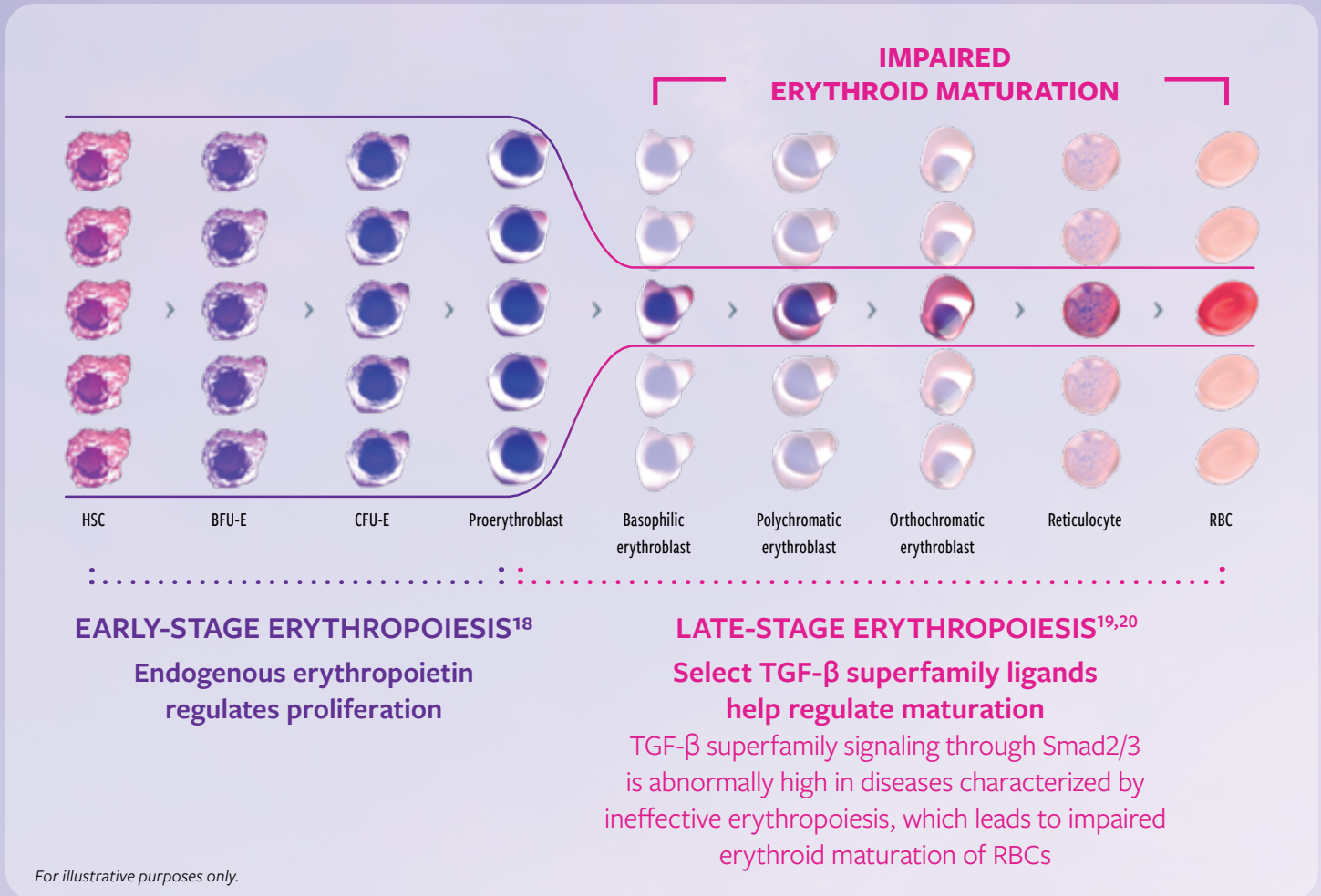
The presence of anemia despite increased proliferation of progenitor cells is indicative of ineffective erythropoiesis in MDS



There is a need to help address anemia due to ineffective erythropoiesis in patients with MDS requiring RBC transfusions

MECHANISM OF DISEASE

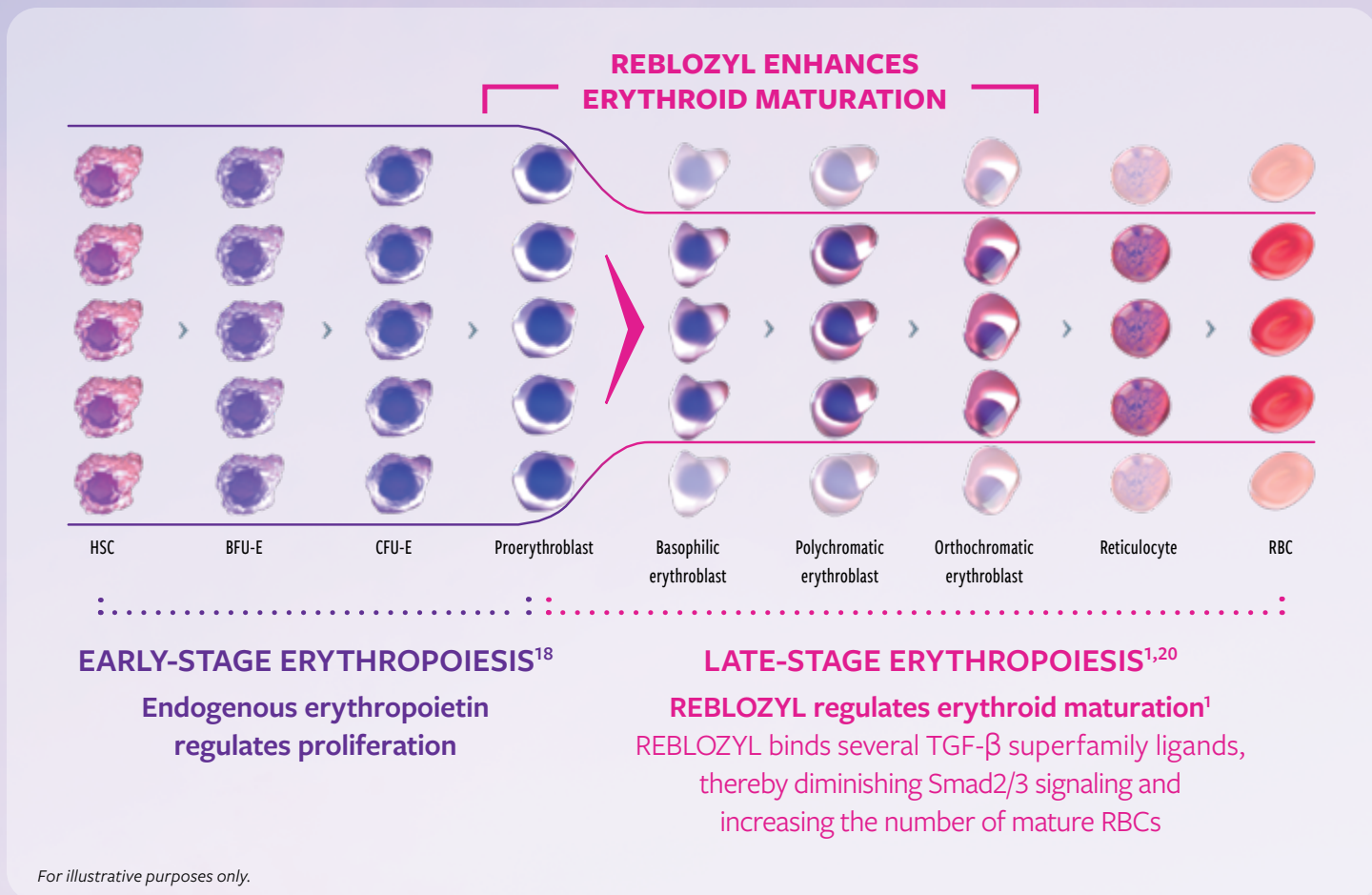
Impaired erythroid maturation contributes to ineffective erythropoiesis, resulting in low production of RBCs and anemia^{16,17}



BFU-E, burst-forming unit erythroid; CFU-E, colony-forming unit erythroid; HSC, hematopoietic stem cell; TGF- β , transforming growth factor beta.

MECHANISM OF ACTION

REBLOZYL restores erythropoiesis by increasing the number and improving the quality of mature RBCs^{1,17}



In preclinical models, REBLOZYL improved Hgb levels, RBC morphology, and other hematology parameters* associated with ineffective erythropoiesis^{1,20,21}

*Other hematology parameters include reducing oxidative stress in erythrocytes, reducing accumulation of α -globin aggregates in erythrocyte membranes, and improving RBC life span.²¹

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

Hypertension

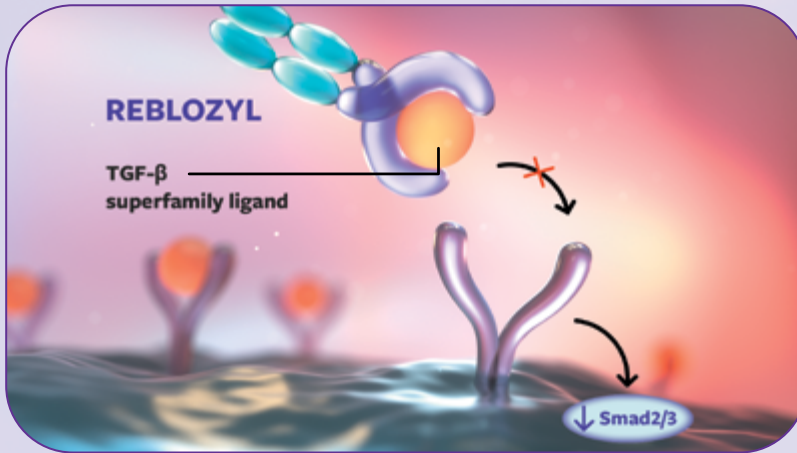
Hypertension was reported in 10.7% (61/571) of REBLOZYL-treated patients. Across clinical studies, the incidence of Grade 3 to 4 hypertension ranged from 1.8% to 8.6%. In adult patients with MDS with normal baseline blood pressure, 26 (29.9%) patients developed SBP ≥ 130 mm Hg and 23 (16.4%) patients developed DBP ≥ 80 mm Hg. Monitor blood pressure prior to each administration. Manage new or exacerbations of preexisting hypertension using anti-hypertensive agents.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

MECHANISM OF ACTION

How REBLOZYL works is based on preclinical studies¹



REBLOZYL is a recombinant fusion protein that binds several endogenous TGF- β superfamily ligands, thereby diminishing Smad2/3 signaling



REBLOZYL PROMOTED ERYTHROID MATURATION

through differentiation of late-stage erythroid precursors (normoblasts)

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

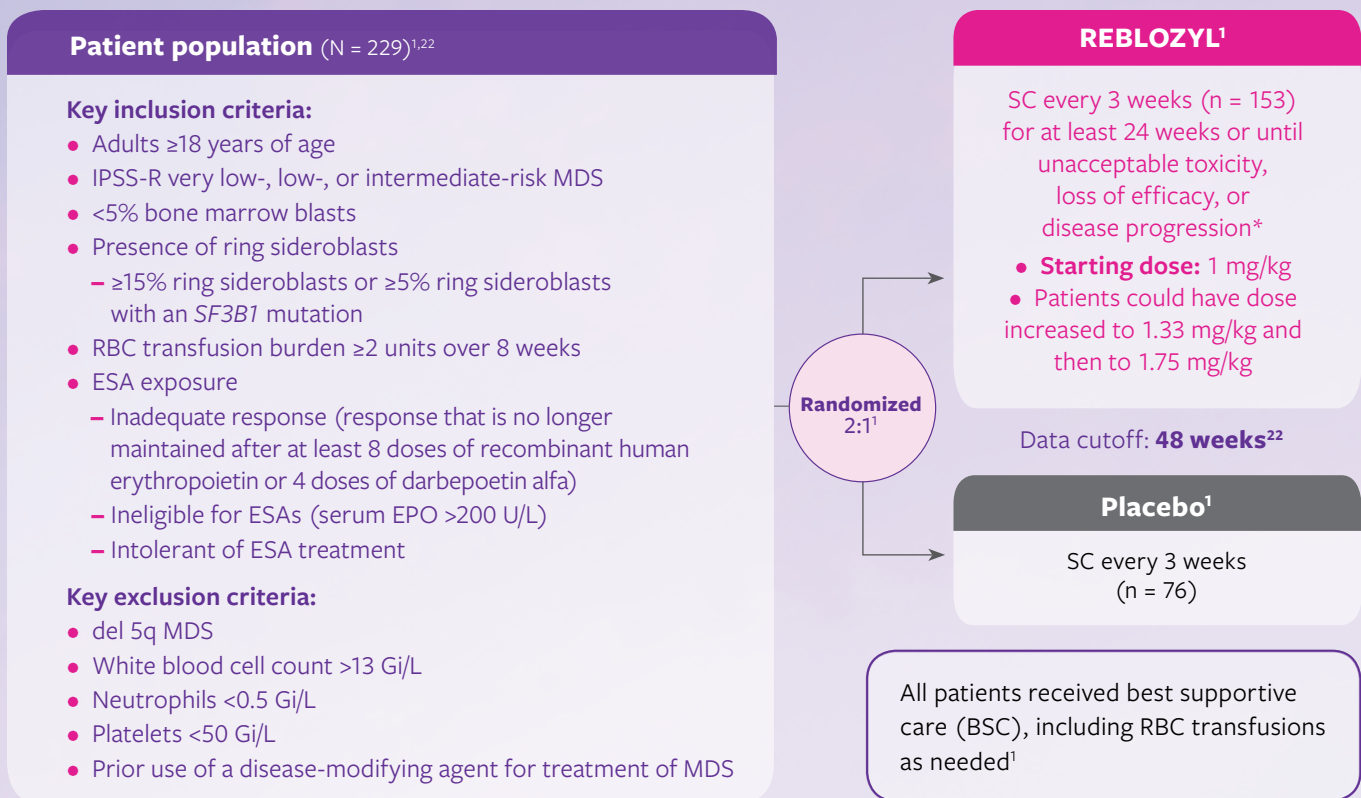
Embryo-Fetal Toxicity

REBLOZYL may cause fetal harm when administered to a pregnant woman. REBLOZYL caused increased post-implantation loss, decreased litter size, and an increased incidence of skeletal variations in pregnant rat and rabbit studies. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 3 months after the final dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspaterecept-aamt)
for injection 25mg • 75mg

REBLOZYL was studied in the multicenter, randomized, double-blind, placebo-controlled, phase 3 MEDALIST trial^{1,22}



*The primary efficacy assessment was conducted after completion of 24 weeks on study drug. Patients with a decrease in transfusion requirement or increase in Hgb could continue on blinded study drug thereafter until unacceptable toxicity, loss of efficacy, or disease progression.¹

del 5q, deletion 5q; EPO, erythropoietin; ESA, erythropoiesis-stimulating agent; SC, subcutaneous injection.

PRIMARY ENDPOINT¹

- RBC transfusion independence (RBC-TI), defined as the absence of any RBC transfusion during any consecutive 8-week period occurring entirely within the first 24 weeks of treatment

KEY SECONDARY ENDPOINT¹

- RBC-TI for ≥12 weeks (during weeks 1–24 and 1–48)

ADDITIONAL SECONDARY ENDPOINTS²²

- RBC-TI for ≥8 weeks at 48 weeks, to capture potential late responders
- Modified hematologic improvement-erythroid (mHI-E) defined by the International Working Group (IWG) for any consecutive 56-day period
 - Reduction in RBC transfusion burden ≥4 RBC units/8 weeks
 - Mean Hgb increase of ≥1.5 g/dL/8 weeks
- Duration of response
- Hgb change from baseline

IMPORTANT SAFETY INFORMATION (CONT'D)

ADVERSE REACTIONS

Grade ≥3 (≥2%) adverse reactions included fatigue, hypertension, syncope and musculoskeletal pain. A fatal adverse reaction occurred in 5 (2.1%) patients.

The most common (≥10%) adverse reactions included fatigue, musculoskeletal pain, dizziness, diarrhea, nausea, hypersensitivity reactions, hypertension, headache, upper respiratory tract infection, bronchitis, and urinary tract infection.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

The MEDALIST trial included patients with very low- to intermediate-risk MDS with ring sideroblasts^{1,22}

BASELINE DISEASE CHARACTERISTICS OF PATIENTS IN PIVOTAL PHASE 3 MEDALIST TRIAL^{1,22}

Demographic and disease characteristics	REBLOZYL (n = 153)	Placebo (n = 76)
Age, years		
Median (min, max)	71.0 (40, 95)	72.0 (26, 91)
Time since original MDS diagnosis,^a months		
Median (min, max)	44.0 (3, 421)	36.1 (4, 193)
Serum EPO (U/L) categories,^b n (%)		
<200	88 (57.5)	50 (65.8)
200 to 500	43 (28.1)	15 (19.7)
>500	21 (13.7)	11 (14.5)
Missing	1 (0.7)	0
RBC transfusions/8 weeks over 16 weeks, n (%)		
<4 units	46 (30.1)	20 (26.3)
≥4 and <6 units	41 (26.8)	23 (30.3)
≥6 units	66 (43.1)	33 (43.4)

- Baseline characteristics were balanced between arms²²

36% (83/229) of all patients in the trial were 75 years of age or older, including patients up to 95 years^{1,22,*}

While 39% of patients had serum EPO >200 U/L, 95.2% of all patients in the trial were ESA-exposed and only 4.8% were ESA-naïve (EPO >200 U/L)^{1,22,*}

57% of patients had <6 RBC units/8 weeks^{1*}

*Numbers in callouts are based on the entire clinical trial population.^{1,22}

(continued on following page)

^aTime since original MDS diagnosis was defined as the number of months from the date of original diagnosis to the date of informed consent.¹

^bBaseline EPO was defined as the highest EPO value within 35 days of the first dose of study drug.¹

IMPORTANT SAFETY INFORMATION (CONT'D)

LACTATION

It is not known whether REBLOZYL is excreted into human milk or absorbed systemically after ingestion by a nursing infant. REBLOZYL was detected in milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be present in human milk. Because many drugs are excreted in human milk, and because of the unknown effects of REBLOZYL in infants, a decision should be made whether to discontinue nursing or to discontinue treatment. Because of the potential for serious adverse reactions in the breastfed child, breastfeeding is not recommended during treatment and for 3 months after the last dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

The MEDALIST trial included patients with very low- to intermediate-risk MDS with ring sideroblasts (cont'd)^{1,22}

BASELINE DISEASE CHARACTERISTICS OF PATIENTS IN PIVOTAL PHASE 3 MEDALIST TRIAL (CONT'D)^{1,22}

Demographic and disease characteristics	REBLOZYL (n = 153)	Placebo (n = 76)
Diagnosis per WHO 2016 criteria,^c n (%)		
MDS-RS ^d	135 (88.2)	65 (85.5)
MDS/MPN-RS-T	14 (9.2)	9 (11.8)
Other ^e	4 (2.6)	2 (2.6)
SF3B1, n (%)		
Mutated	141 (92.2)	65 (85.5)
Nonmutated	12 (7.8)	10 (13.2)
Missing	0	1 (1.3)
IPSS-R classification risk category, n (%)		
Very low	18 (11.8)	6 (7.9)
Low	109 (71.2)	57 (75)
Intermediate	25 (16.3)	13 (17.1)
High	1 (0.7)	0

All patients had ring sideroblasts^{1*}

The majority of patients had an SF3B1 mutation^{22*}

All patients except 1 had very low- to intermediate-risk MDS^{1*}

*Numbers in callouts are based on the entire clinical trial population.^{1,22}

^cMEDALIST enrolled patients with MDS with ring sideroblasts per the WHO 2008 criteria; however, these data are based on post hoc reclassification of patients by the FDA using the WHO 2016 diagnostic criteria (MDS-RS [n = 200; 87.3%], MDS/MPN-RS-T [n = 23; 10.0%], and Other [n = 6; 2.6%]).²²

^dIncludes MDS-RS-MLD and MDS-RS-SLD.¹

^eIncludes MDS-EB-1, MDS-EB-2, and MDS-U, which met the criteria for inclusion of ring sideroblasts ≥15% of erythroid precursors in the bone marrow or ≥5% (but <15%) if SF3B1 mutation was present.^{1,22}

FDA, Food and Drug Administration; MDS-EB-1, myelodysplastic syndromes with excess blasts (5%–9% in the bone marrow or 2%–4% in the blood); MDS-EB-2, myelodysplastic syndromes with excess blasts (10%–19% in the bone marrow or 5%–19% in the blood); MDS-U, myelodysplastic syndromes, unclassifiable.

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

Thrombosis/Thromboembolism

In adult patients with beta thalassemia, thromboembolic events (TEE) were reported in 8/223 (3.6%) REBLOZYL-treated patients. TEEs included deep vein thrombosis, pulmonary embolus, portal vein thrombosis, and ischemic stroke. Patients with known risk factors for thromboembolism (splenectomy or concomitant use of hormone replacement therapy) may be at further increased risk of thromboembolic conditions. Consider thromboprophylaxis in patients at increased risk of TEE. Monitor patients for signs and symptoms of thromboembolic events and institute treatment promptly.

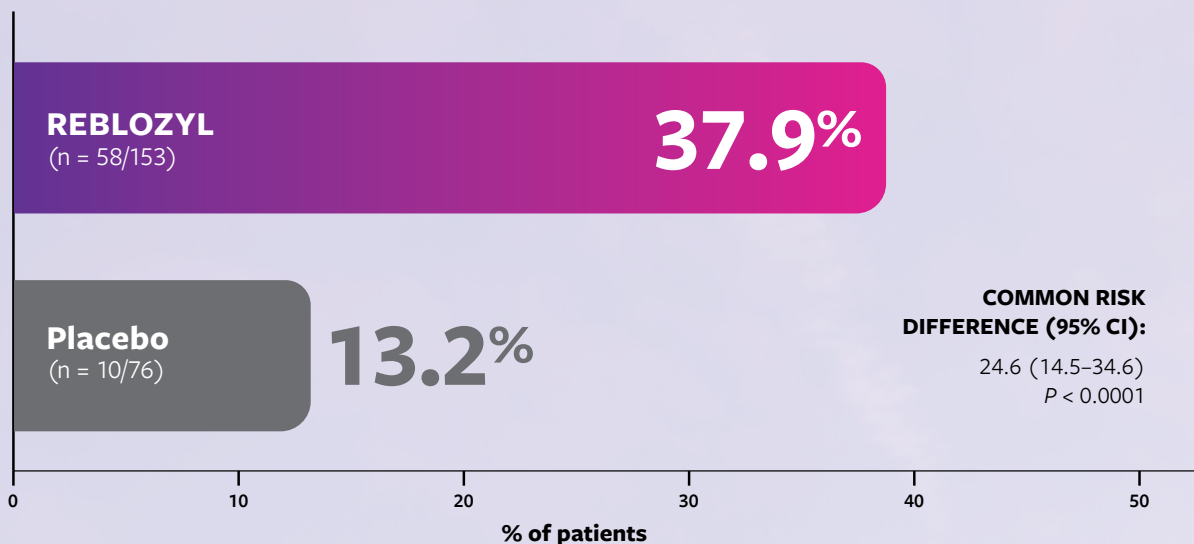
Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.



Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

REBLOZYL provided substantial clinical benefit through RBC transfusion independence vs placebo¹

PRIMARY ENDPOINT: RBC-TI \geq 8 WEEKS DURING WEEKS 1 TO 24¹



APPROXIMATELY

3X

greater percentage of patients receiving REBLOZYL achieved RBC transfusion independence (primary endpoint) than placebo

CI, confidence interval.



The NCCN Guidelines recommend luspatercept-aamt (REBLOZYL) for anemia in very low- to intermediate-risk MDS with ring sideroblasts after 3–4 months of no response to ESAs (Category 2A)⁶

This recommendation is for patients with ring sideroblasts \geq 15% or ring sideroblasts \geq 5% with an *SF3B1* mutation*

*And with serum EPO \leq 500 mU/mL.

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

Hypertension

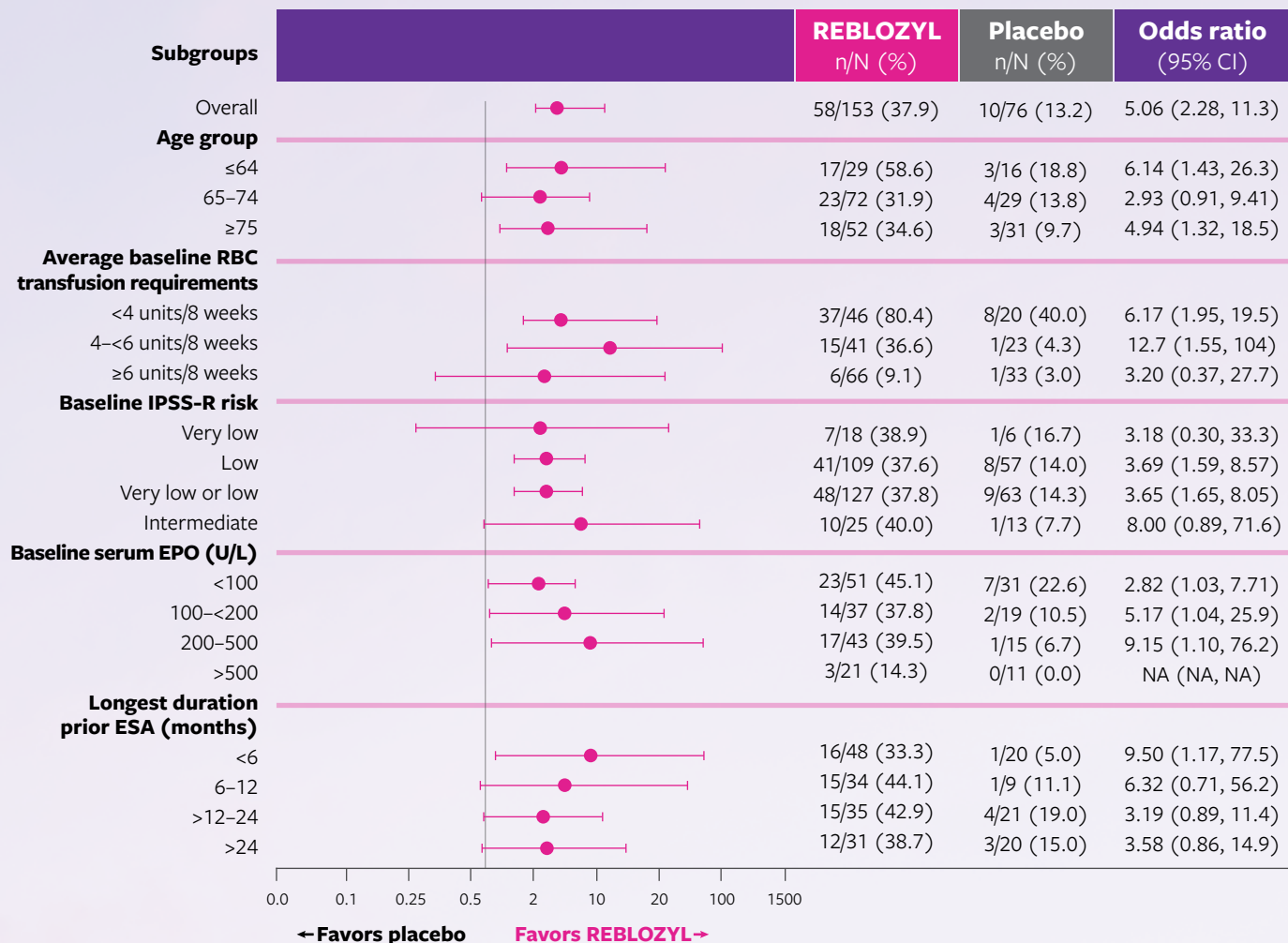
Hypertension was reported in 10.7% (61/571) of REBLOZYL-treated patients. Across clinical studies, the incidence of Grade 3 to 4 hypertension ranged from 1.8% to 8.6%. In adult patients with MDS with normal baseline blood pressure, 26 (29.9%) patients developed SBP \geq 130 mm Hg and 23 (16.4%) patients developed DBP \geq 80 mm Hg. Monitor blood pressure prior to each administration. Manage new or exacerbations of preexisting hypertension using anti-hypertensive agents.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

Primary endpoint subgroup analysis: Rates of RBC transfusion independence with REBLOZYL²²

RBC-TI ≥8 WEEKS DURING WEEKS 1 TO 24



The odds ratio is shown in the table. Odds ratio is the probability of an event (transfusion independence) occurring in a group, divided by the probability of that event not occurring. NA, not available.

ANALYSIS LIMITATIONS

- These exploratory analyses should not be interpreted to determine treatment difference between arms in these select subgroups because of potential selection bias, insufficient sample size, and a higher probability of making a false positive finding

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

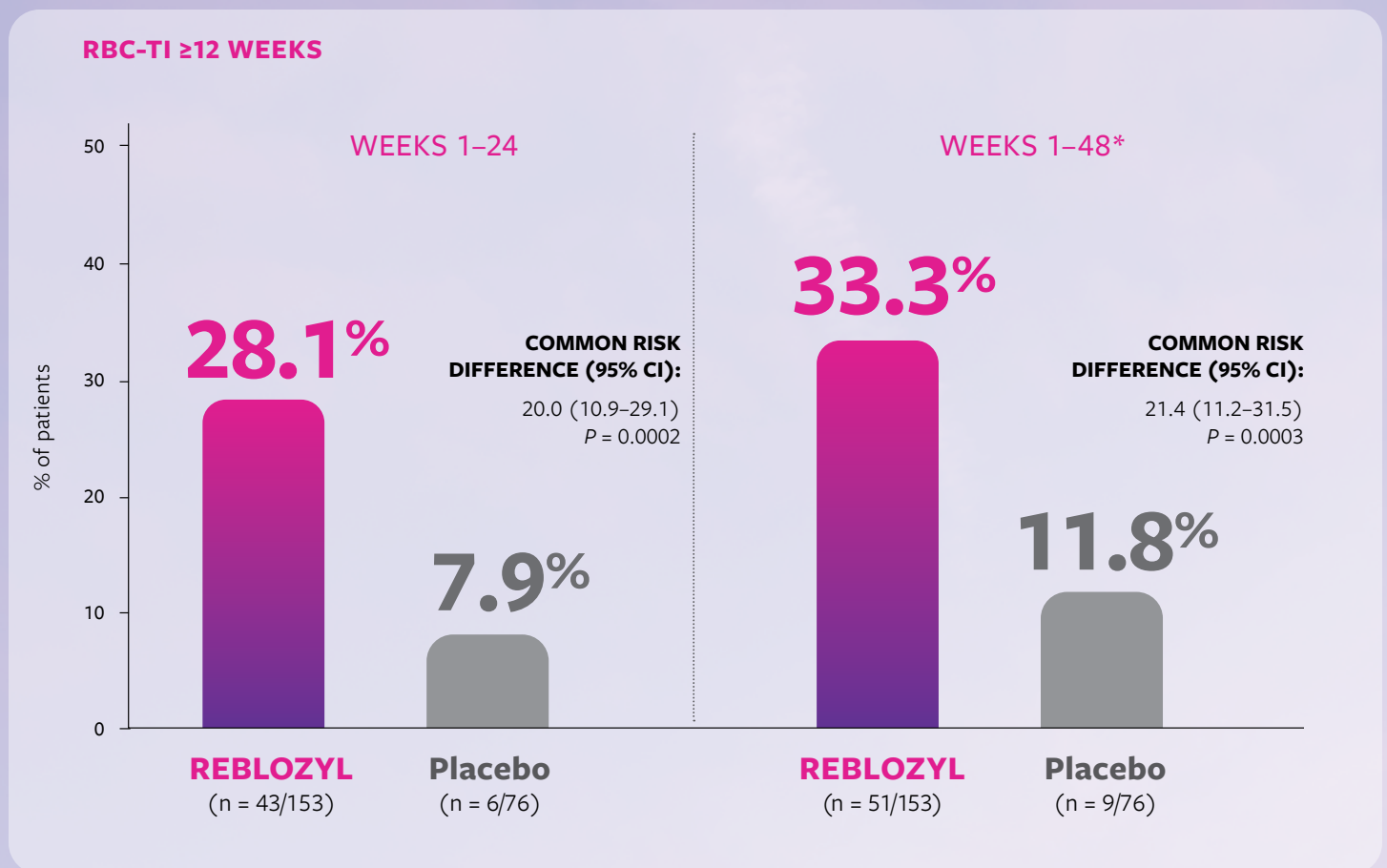
Embryo-Fetal Toxicity

REBLOZYL may cause fetal harm when administered to a pregnant woman. REBLOZYL caused increased post-implantation loss, decreased litter size, and an increased incidence of skeletal variations in pregnant rat and rabbit studies. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 3 months after the final dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspaterecept-aamt)
for injection 25mg • 75mg

Key secondary endpoints: REBLOZYL had a significantly higher rate of RBC transfusion independence vs placebo for 12 weeks or more¹



*The median (range) duration of treatment was 49 weeks (6-114 weeks) on the REBLOZYL arm and 24 weeks (7-89 weeks) on the placebo arm.

IMPORTANT SAFETY INFORMATION (CONT'D)

ADVERSE REACTIONS

Grade ≥3 (≥2%) adverse reactions included fatigue, hypertension, syncope and musculoskeletal pain. A fatal adverse reaction occurred in 5 (2.1%) patients.

The most common (≥10%) adverse reactions included fatigue, musculoskeletal pain, dizziness, diarrhea, nausea, hypersensitivity reactions, hypertension, headache, upper respiratory tract infection, bronchitis, and urinary tract infection.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
 (luspatercept-aamt)
 for injection 25mg • 75mg

Additional endpoints: REBLOZYL provided RBC-TI vs placebo in patients with MDS-RS and MDS/MPN-RS-T¹

RBC-TI ≥8 WEEKS DURING WEEKS 1 TO 24 BY DIAGNOSIS AND BASELINE TRANSFUSION BURDEN IN MEDALIST

	Responders/N		% Response (95% CI)	
	REBLOZYL	Placebo	REBLOZYL	Placebo
WHO 2016 diagnosis				
MDS-RS	46/135	8/65	34.1% (26.1, 42.7)	12.3% (5.5, 22.8)
MDS/MPN-RS-T	9/14	2/9	64.3% (35.1, 87.2)	22.2% (2.8, 60.0)
Other ^a	3/4	0/2	75.0% (19.4, 99.4)	0.0% (0.0, 84.2)
Baseline RBC transfusion burden				
2–3 units/8 weeks ^b	37/46	8/20	80.4% (66.1, 90.6)	40.0% (19.1, 63.9)
4–5 units/8 weeks ^c	15/41	1/23	36.6% (22.1, 53.1)	4.3% (0.1, 21.9)
≥6 units/8 weeks	6/66	1/33	9.1% (3.4, 18.7)	3.0% (0.1, 15.8)

^aIncludes MDS-EB-1, MDS-EB-2, and MDS-U.

^bIncludes patients who received 3.5 units.

^cIncludes patients who received 5.5 units.

IMPORTANT SAFETY INFORMATION (CONT'D)

LACTATION

It is not known whether REBLOZYL is excreted into human milk or absorbed systemically after ingestion by a nursing infant. REBLOZYL was detected in milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be present in human milk. Because many drugs are excreted in human milk, and because of the unknown effects of REBLOZYL in infants, a decision should be made whether to discontinue nursing or to discontinue treatment. Because of the potential for serious adverse reactions in the breastfed child, breastfeeding is not recommended during treatment and for 3 months after the last dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatерcept-aamt)
for injection 25mg • 75mg



Additional analysis in patients who achieved the primary endpoint (RBC transfusion independence ≥ 8 weeks) with REBLOZYL

DAY OF MEAN Hgb INCREASE OF 1.5 g/dL IN PATIENTS WHO ACHIEVED THE PRIMARY ENDPOINT (n = 58)²³

	Day	Approximate mean Hgb increase	Number of REBLOZYL responders with an Hgb measurement at first evaluation
First evaluation for Hgb	8	1.5 g/dL	24

THE MEDIAN PEAK INCREASE IN Hgb LEVEL IN PATIENTS IN THE REBLOZYL GROUP WHO ACHIEVED THE PRIMARY ENDPOINT (n = 58)²³

	Hgb level
Median peak increase in the Hgb level	2.55 g/dL (range, 1.0–4.1)

ANALYSIS LIMITATIONS

- The mean values and standard errors were not calculated if the number of patients was fewer than 8 in the REBLOZYL group of patients without a response or if the number was fewer than 4 in the placebo group²³
- Hgb values that were obtained within 14 days after an RBC transfusion were censored from these analyses unless they also were within 3 days before receipt of another RBC transfusion²³
- Patients may have experienced multiple periods of response intermittently between periods without response over the 24-week assessment period and extension phase through 25 to 48 weeks²²
- All patients in both arms were eligible to receive BSC, which included RBC transfusions as needed¹
- These exploratory analyses should not be interpreted to determine treatment difference between arms in these select endpoints because of potential selection bias, insufficient sample size, and a higher probability of making a false positive finding

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

Thrombosis/Thromboembolism

In adult patients with beta thalassemia, thromboembolic events (TEE) were reported in 8/223 (3.6%) REBLOZYL-treated patients. TEEs included deep vein thrombosis, pulmonary embolus, portal vein thrombosis, and ischemic stroke. Patients with known risk factors for thromboembolism (splenectomy or concomitant use of hormone replacement therapy) may be at further increased risk of thromboembolic conditions. Consider thromboprophylaxis in patients at increased risk of TEE. Monitor patients for signs and symptoms of thromboembolic events and institute treatment promptly.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspaterecept-aamt)
for injection 25mg • 75mg

Additional analysis: Modified hematologic improvement-erythroid (mHI-E) was assessed in patients receiving REBLOZYL

mHI-E WAS DEFINED PER THE IWG CRITERIA AS THE PROPORTION OF PATIENTS WHO MET mHI-E CRITERIA SUSTAINED OVER ANY CONSECUTIVE 56-DAY (8-WEEK) PERIOD²²:

- **For patients with baseline RBC transfusion burden of at least 4 units/8 weeks:**
response was defined as a reduction in RBC transfusion burden of ≥ 4 RBC units/8 weeks
- **For patients with baseline RBC transfusion burden of less than 4 units/8 weeks:**
response was defined as a mean Hgb increase of ≥ 1.5 g/dL/8 weeks in the absence of transfusions for at least 8 weeks

MODIFIED HEMATOLOGIC IMPROVEMENT-ERYTHROID (mHI-E) IN PATIENTS RECEIVING REBLOZYL VS PLACEBO²²

	Weeks 1–24		Weeks 1–48	
	REBLOZYL (n = 153)	Placebo (n = 76)	REBLOZYL (n = 153)	Placebo (n = 76)
Modified hematologic improvement-erythroid (mHI-E)	52.9% (81/153)	11.8% (9/76)	58.8% (90/153)	17.1% (13/76)
RBC transfusion reduction of ≥ 4 units/8 weeks^a	48.6% (52/107)	14.3% (8/56)	54.2% (58/107)	21.4% (12/56)
Mean Hgb increase of ≥ 1.5 g/dL for 8 weeks in the absence of transfusions^b	63.0% (29/46)	5.0% (1/20)	69.6% (32/46)	5.0% (1/20)

^aPercentage based on number of patients with baseline RBC transfusion burden of ≥ 4 units/8 weeks (n = 107 in the REBLOZYL arm).

^bPercentage based on number of patients with baseline RBC transfusion burden of < 4 units/8 weeks (n = 46 in the REBLOZYL arm).

ANALYSIS LIMITATIONS

- The primary endpoint of the study was transfusion independence defined as the absence of any RBC transfusion during any consecutive 8-week period occurring within weeks 1 through 24¹
 - Primary endpoint data: 37.9% (58/153) for REBLOZYL vs 13.2% (10/76) for placebo
- The mHI-E analysis is a broader analysis than transfusion independence. The analysis included patients that did not meet the primary endpoint of transfusion independence²²:
 - Those who achieved transfusion reduction of ≥ 4 units over 8 weeks (with higher baseline transfusion burden)
 - Those whose Hgb increased by ≥ 1.5 g/dL for 8 weeks in the absence of transfusions (with lower baseline transfusion burden)
- Patients may have experienced multiple periods of response intermittently between periods without response over the 24-week assessment period and extension phase through 25 to 48 weeks²²
- All patients in both arms were eligible to receive BSC, which included RBC transfusions as needed¹
- These exploratory analyses should not be interpreted to determine treatment difference between arms in these select endpoints because of potential selection bias, insufficient sample size, and a higher probability of making a false positive finding

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

Hypertension

Hypertension was reported in 10.7% (61/571) of REBLOZYL-treated patients. Across clinical studies, the incidence of Grade 3 to 4 hypertension ranged from 1.8% to 8.6%. In adult patients with MDS with normal baseline blood pressure, 26 (29.9%) patients developed SBP ≥ 130 mm Hg and 23 (16.4%) patients developed DBP ≥ 80 mm Hg. Monitor blood pressure prior to each administration. Manage new or exacerbations of preexisting hypertension using anti-hypertensive agents.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

Adverse reactions with REBLOZYL

- The median time on treatment with REBLOZYL was 50.4 weeks (range, 3–221 weeks)¹
- 67% of patients were exposed for 6 months or longer and 49% were exposed for >1 year¹
- Among the 242 patients treated with REBLOZYL, 5 (2.1%) had a fatal adverse reaction¹
- Selected laboratory abnormalities that changed from Grade 0 to 1 at baseline to Grade ≥2 at any time during the studies in at least 10% of patients included creatinine clearance decreased, total bilirubin increased, and alanine aminotransferase increased¹
- Other clinically relevant adverse reactions reported in <5% of patients included bronchitis, urinary tract infection, and hypertension¹

The majority of adverse reactions with REBLOZYL were Grade 1 or 2 (mild to moderate)¹

ADVERSE REACTIONS (≥5%) IN PATIENTS RECEIVING REBLOZYL WITH A DIFFERENCE BETWEEN ARMS OF >2% IN MEDALIST TRIAL THROUGH CYCLE 8

Body system/adverse reaction	REBLOZYL (n = 153)		Placebo (n = 76)	
	All Grades n (%)	Grade 3 n (%)	All Grades n (%)	Grade 3 n (%)
General disorders and administration site conditions				
Fatigue ^{a,b}	63 (41)	11 (7)	17 (22)	2 (3)
Musculoskeletal and connective tissue disorders				
Musculoskeletal pain ^b	30 (20)	3 (2)	11 (14)	0 (0)
Nervous system disorders				
Dizziness/vertigo	28 (18)	1 (<1)	5 (7)	1 (1)
Headache ^b	21 (14)	0 (0)	5 (7)	0 (0)
Syncope/presyncope	8 (5)	5 (3)	0 (0)	0 (0)
Gastrointestinal disorders				
Nausea ^b	25 (16)	1 (<1)	8 (11)	0 (0)
Diarrhea ^b	25 (16)	0 (0)	7 (9)	0 (0)
Respiratory, thoracic, and mediastinal disorders				
Dyspnea ^b	20 (13)	2 (1)	4 (5)	1 (1)
Immune system disorders				
Hypersensitivity reactions ^b	15 (10)	1 (<1)	5 (7)	0 (0)
Renal and urinary disorders				
Renal impairment ^b	12 (8)	3 (2)	3 (4)	0 (0)
Cardiac disorders				
Tachycardia ^b	12 (8)	0 (0)	1 (1)	0 (0)
Injury poisoning and procedural complications				
Injection site reactions	10 (7)	0 (0)	3 (4)	0 (0)
Infections and infestations				
Upper respiratory tract infection	10 (7)	1 (<1)	2 (3)	0 (0)
Influenza/influenza-like illness	9 (6)	0 (0)	2 (3)	0 (0)

^aIncludes asthenic conditions.

^bReaction includes similar/grouped terms.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(lusatercept-aamt)
for injection 25mg • 75mg

Liver function abnormalities and immunogenicity

SELECTED GRADES 2 TO 4 TREATMENT-EMERGENT LABORATORY ABNORMALITIES THROUGH CYCLE 8 IN THE MEDALIST TRIAL¹

Parameter	REBLOZYL		Placebo	
	N ^a	n (%)	N ^a	n (%)
ALT elevated	151	13 (9)	74	5 (7)
AST elevated	152	6 (4)	76	0 (0)
Total bilirubin elevated	140	17 (12)	66	3 (5)
Creatinine clearance reduced	113	30 (27)	62	13 (21)

^aNumber of patients at Grades 0 to 1 at baseline.
ALT, alanine aminotransferase; AST, aspartate aminotransferase.

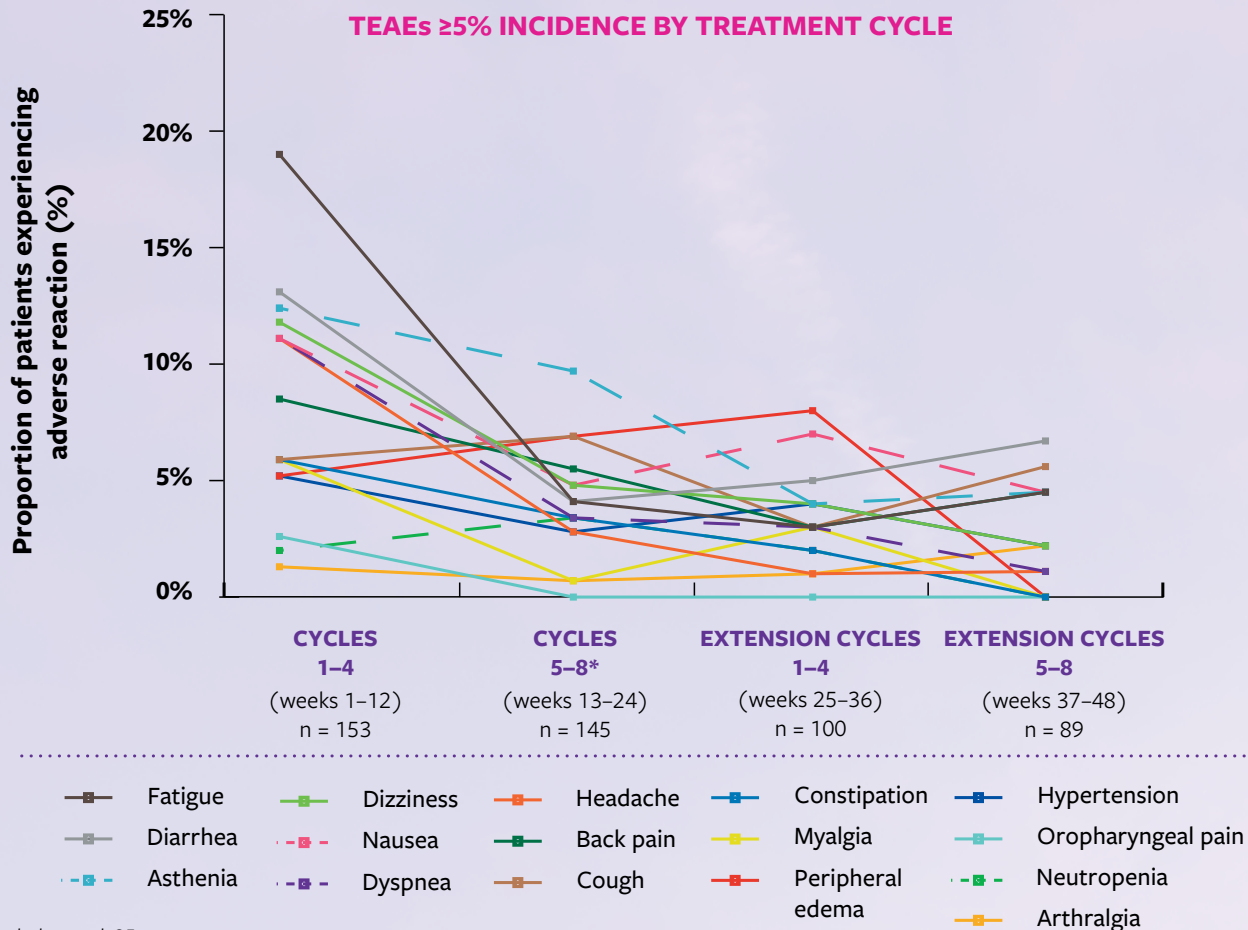
IMMUNOGENICITY¹

- Of 260 patients with MDS who were treated with REBLOZYL and evaluable for the presence of anti-luspatercept-aamt antibodies, 23 patients (8.9%) tested positive for treatment-emergent anti-luspatercept-aamt antibodies, including 9 patients (3.5%) who had neutralizing antibodies
- Luspatercept-aamt serum concentration tended to decrease in the presence of neutralizing antibodies
- There were no severe acute systemic hypersensitivity reactions reported for patients with anti-luspatercept-aamt antibodies in REBLOZYL clinical trials, and there was no association between hypersensitivity type reaction or injection site reaction and presence of anti-luspatercept-aamt antibodies

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

Additional analysis of treatment-emergent adverse events (TEAEs) by REBLOZYL treatment cycle²⁴



*Includes week 25 assessment.

ANALYSIS LIMITATIONS

- All patients in both arms were eligible to receive BSC, including RBC transfusions as needed¹
- Adverse events (AEs) with a duration overlapping multiple cycles were only counted in the first overlapped cycle. If an AE occurred multiple times in different cycles, it was counted once in each cycle. If an AE occurred multiple times within the same cycle, it was counted only once. If a patient experienced multiple events under the same MedDRA 20.0 preferred term, then the patient was counted only once for the preferred term²⁴
- Patients who met the criteria and remained on double-blind treatment after completion of week 25 assessment may have continued dosing in the extension phase of the treatment period until the subject experienced unacceptable toxicities, disease progression, withdrew consent, or met any other discontinuation criteria^{1,24}
- Fatigue TEAE does not include broader asthenic conditions adverse drug reactions (ADRs)

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

ADDITIONAL ANALYSIS INFORMATION

- Analysis is based on data through week 48²²
- The chart displays TEAEs independent of attribution of treatment or disease. The percentage shown in this graph does not match the Adverse Reactions table on page 18
- TEAEs are undesirable events not present prior to medical treatment, or an already present event that worsens either in intensity or frequency following the treatment

Reblozyl[®]
(luspaterecept-aamt)
for injection 25mg • 75mg

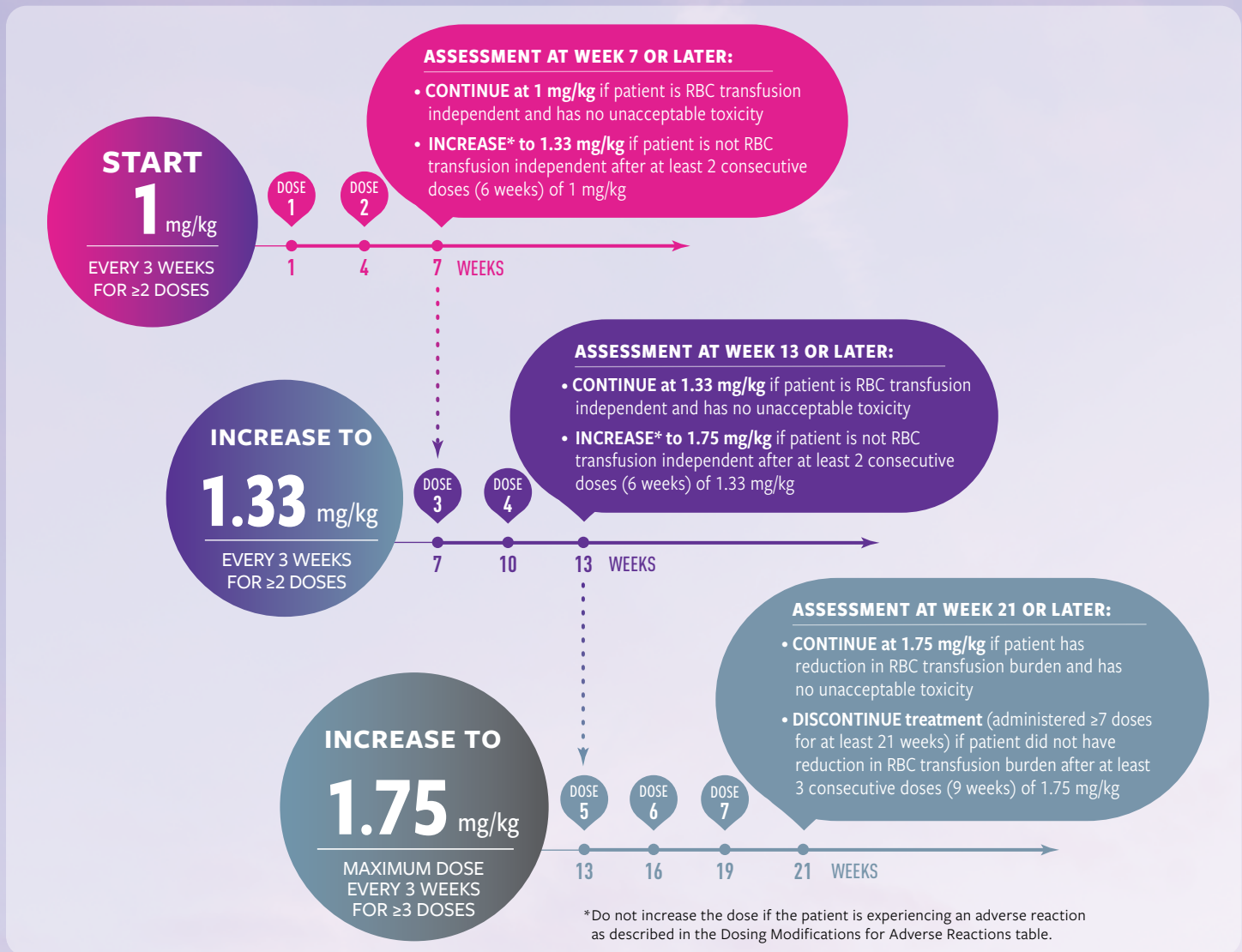
Treatment with REBLOZYL should continue as long as patients experience clinical benefit^{1,22}

ASSESS AND REVIEW PATIENTS' Hgb AND TRANSFUSION RECORD PRIOR TO EACH ADMINISTRATION¹

- If an RBC transfusion occurred prior to dosing, use the pretransfusion Hgb for dose evaluation¹
- If a patient experiences a dose delay due to Hgb increase, measure Hgb every week²²

REBLOZYL dose titration for response¹

- Increase REBLOZYL dose with the goal of achieving transfusion independence, but do not increase if patient is experiencing adverse reactions. Discontinue REBLOZYL after 3 doses at the maximum dose if no transfusion burden reduction or if unacceptable toxicity occurs



IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

Embryo-Fetal Toxicity

REBLOZYL may cause fetal harm when administered to a pregnant woman. REBLOZYL caused increased post-implantation loss, decreased litter size, and an increased incidence of skeletal variations in pregnant rat and rabbit studies. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 3 months after the final dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspaterecept-aamt)
for injection 25mg • 75mg

Dose modifications for predose Hgb levels or rapid Hgb rise¹

	REBLOZYL Dosing recommendation
Predose Hgb is ≥ 11.5 g/dL in the absence of transfusions	<ul style="list-style-type: none"> Interrupt treatment Restart when the Hgb is no more than 11 g/dL
Increase in Hgb > 2 g/dL within 3 weeks in the absence of transfusions and:	
<ul style="list-style-type: none"> current dose is 1.75 mg/kg 	<ul style="list-style-type: none"> Reduce dose to 1.33 mg/kg
<ul style="list-style-type: none"> current dose is 1.33 mg/kg 	<ul style="list-style-type: none"> Reduce dose to 1 mg/kg
<ul style="list-style-type: none"> current dose is 1 mg/kg 	<ul style="list-style-type: none"> Reduce dose to 0.8 mg/kg
<ul style="list-style-type: none"> current dose is 0.8 mg/kg 	<ul style="list-style-type: none"> Reduce dose to 0.6 mg/kg
<ul style="list-style-type: none"> current dose is 0.6 mg/kg 	<ul style="list-style-type: none"> Discontinue treatment

Dose increases in the event of loss of response¹

- If, upon dose reduction, the patient loses response (ie, requires a transfusion) or Hgb concentration drops by 1 g/dL or more in 3 weeks in the absence of transfusion, increase the dose by 1 dose level
- Wait a minimum of 6 weeks between dose increases
- Dose increases to 1.33 mg/kg and subsequently to 1.75 mg/kg may occur at any time during treatment after patients have received at least 2 consecutive doses at the prior lower dose level
- Do not increase the dose more frequently than every 2 consecutive doses (6 weeks) or beyond the maximum dose of 1.75 mg/kg**

Discontinue treatment if no reduction in transfusion burden is observed¹

- Discontinue REBLOZYL if a patient does not experience a decrease in transfusion burden after 3 doses (9 weeks of treatment) at the maximum dose level or if unacceptable toxicity occurs at any time

If a planned administration of REBLOZYL is delayed or missed¹

- Administer REBLOZYL as soon as possible and continue dosing as prescribed, with at least 3 weeks between doses

REBLOZYL dosing modifications for adverse reactions¹

	REBLOZYL Dosing recommendation*
Grade 3 or 4 hypersensitivity reactions	<ul style="list-style-type: none"> Discontinue treatment
Other Grade 3 or 4 adverse reactions	<ul style="list-style-type: none"> Interrupt treatment When the adverse reaction resolves to no more than Grade 1, restart treatment at the next lower dose level[†] If the dose delay is > 12 consecutive weeks, discontinue treatment

*Grade 1 is mild, Grade 2 is moderate, Grade 3 is severe, and Grade 4 is life-threatening.

[†]Per dose reductions in table above.

IMPORTANT SAFETY INFORMATION (CONT'D)

ADVERSE REACTIONS

Grade ≥ 3 ($\geq 2\%$) adverse reactions included fatigue, hypertension, syncope and musculoskeletal pain. A fatal adverse reaction occurred in 5 (2.1%) patients.

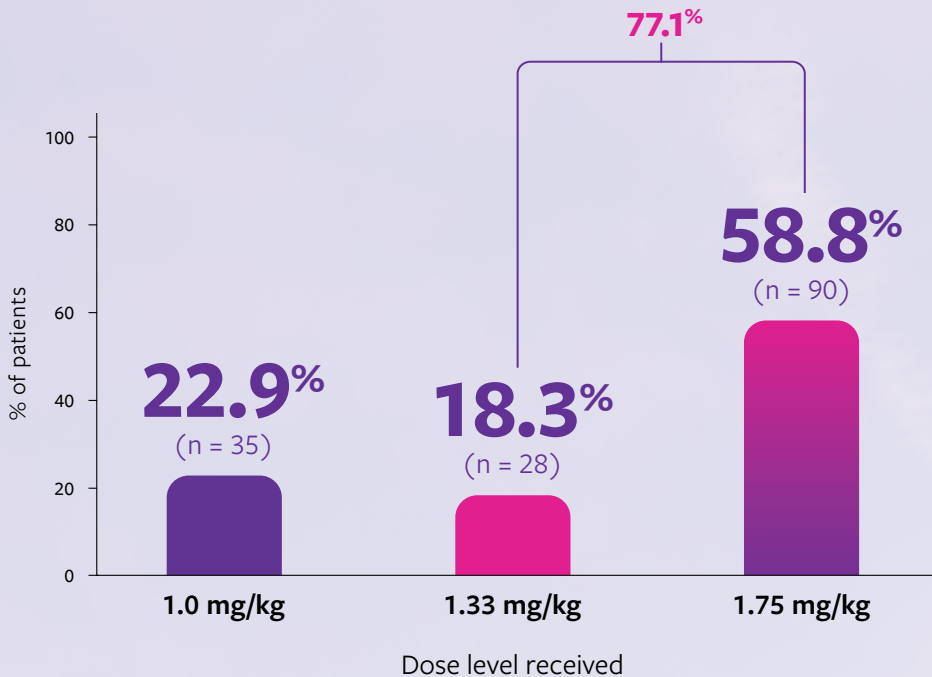
The most common ($\geq 10\%$) adverse reactions included fatigue, musculoskeletal pain, dizziness, diarrhea, nausea, hypersensitivity reactions, hypertension, headache, upper respiratory tract infection, bronchitis, and urinary tract infection.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercpt-aamt)
for injection 25mg • 75mg

Highest dose level of REBLOZYL received by patients in the MEDALIST trial

ASSESSMENT OF HIGHEST DOSE LEVEL RECEIVED BY ALL PATIENTS RECEIVING REBLOZYL (N = 153)²⁵



77.1%
(n = 118/153)
of all patients receiving REBLOZYL had their dose increased at least once

The majority of patients (58.8%, n = 90/153) received 2 dose increases

Data cutoff: May 8, 2018.

Median time to dose escalation

9 weeks
(63 days) time to dose escalation from **1 mg/kg to 1.33 mg/kg** (range 39–419 days)²⁵

15 weeks
(106 days) time to dose escalation from **1 mg/kg to 1.75 mg/kg*** (range 81–359 days)²⁵

*This was a stepwise increase from 1 mg/kg to 1.33 mg/kg and then to 1.75 mg/kg.

Data cutoff: May 8, 2018.²⁵

IMPORTANT SAFETY INFORMATION (CONT'D)

LACTATION

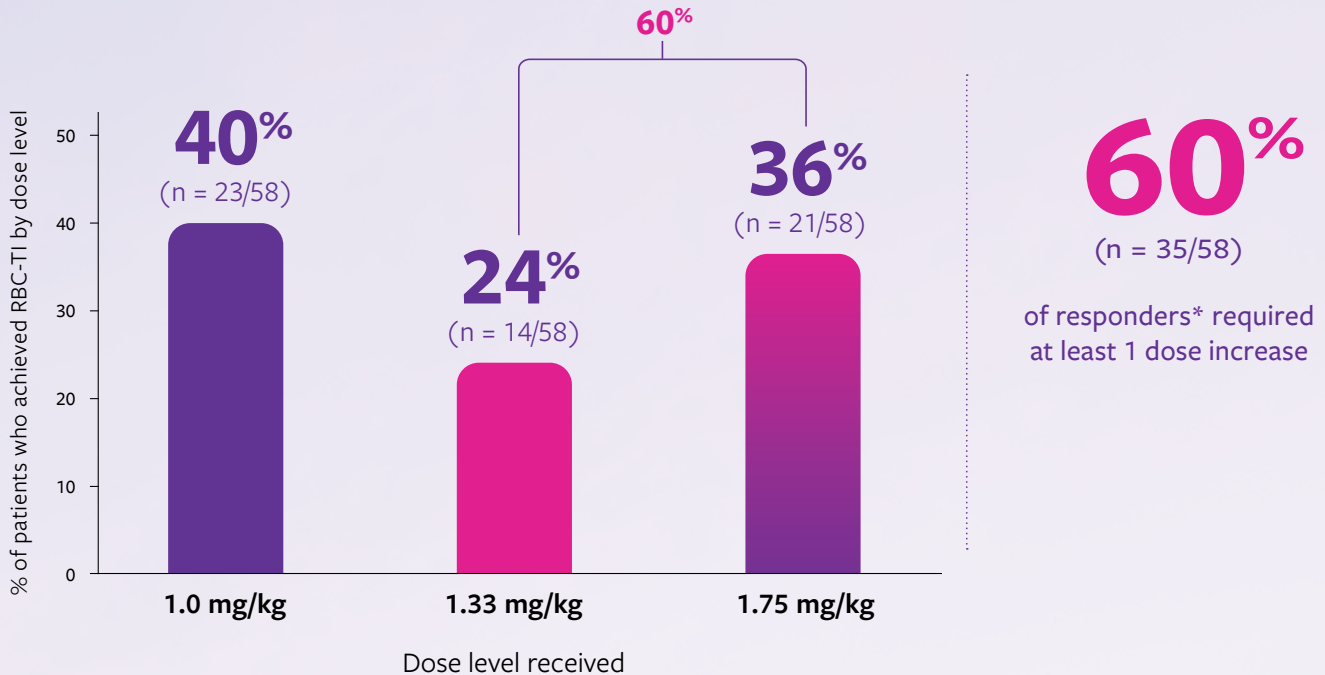
It is not known whether REBLOZYL is excreted into human milk or absorbed systemically after ingestion by a nursing infant. REBLOZYL was detected in milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be present in human milk. Because many drugs are excreted in human milk, and because of the unknown effects of REBLOZYL in infants, a decision should be made whether to discontinue nursing or to discontinue treatment. Because of the potential for serious adverse reactions in the breastfed child, breastfeeding is not recommended during treatment and for 3 months after the last dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(Iuspaterecept-aamt)
for injection 25mg • 75mg

Primary endpoint responder analysis: Responses by REBLOZYL dose levels in patients achieving RBC-TI ≥ 8 weeks during weeks 1 to 24

ASSESSMENT OF DOSE LEVEL AT WHICH REBLOZYL RESPONDERS ACHIEVED RBC-TI ≥ 8 WEEKS DURING WEEKS 1 TO 24 (N = 58)²²



*Patients achieving RBC-TI ≥ 8 weeks during weeks 1 to 24 (n = 58/153).

ANALYSIS LIMITATIONS

- The primary endpoint of the study was transfusion independence defined as the absence of any RBC transfusion during any consecutive 8-week period occurring within weeks 1 through 24¹
 - Primary endpoint data: 37.9% (58/153) for REBLOZYL vs 13.2% (10/76) for placebo
- Patients may have experienced multiple periods of response intermittently between periods without response over the 24-week assessment period and extension phase through 25 to 48 weeks²²
- All patients in both arms were eligible to receive BSC, which included RBC transfusions as needed¹
- These exploratory analyses should not be interpreted to determine treatment difference between arms in these select endpoints because of potential selection bias, insufficient sample size, and a higher probability of making a false positive finding

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

Thrombosis/Thromboembolism

In adult patients with beta thalassemia, thromboembolic events (TEE) were reported in 8/223 (3.6%) REBLOZYL-treated patients. TEEs included deep vein thrombosis, pulmonary embolus, portal vein thrombosis, and ischemic stroke. Patients with known risk factors for thromboembolism (splenectomy or concomitant use of hormone replacement therapy) may be at further increased risk of thromboembolic conditions. Consider thromboprophylaxis in patients at increased risk of TEE. Monitor patients for signs and symptoms of thromboembolic events and institute treatment promptly.

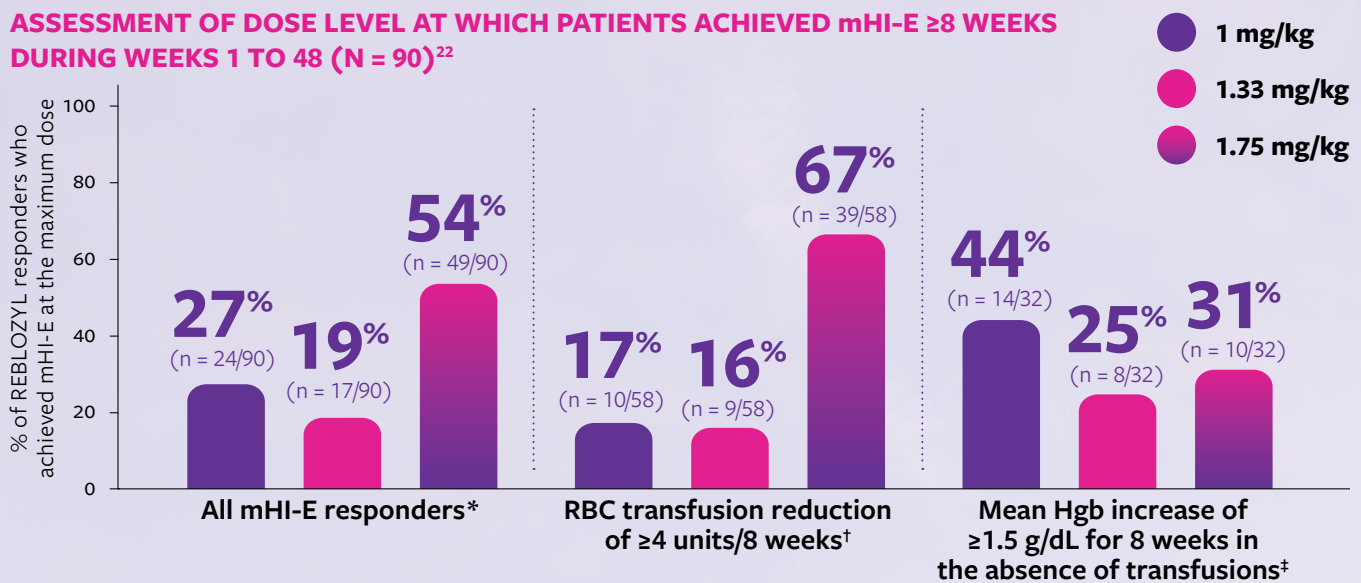
Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.



Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

Additional analysis: Responses by REBLOZYL dose levels in patients achieving mHI-E ≥ 8 weeks during weeks 1 to 48 (n = 90/153)

ASSESSMENT OF DOSE LEVEL AT WHICH PATIENTS ACHIEVED mHI-E ≥ 8 WEEKS DURING WEEKS 1 TO 48 (N = 90)²²



*Percentage based on number of all patients receiving REBLOZYL who achieved mHI-E during weeks 1 to 48 (n = 90/153).

[†]Percentage based on number of patients receiving REBLOZYL with baseline RBC transfusion burden of ≥ 4 units/8 weeks who achieved mHI-E during weeks 1 to 48 (n = 58/107).

[‡]Percentage based on number of patients receiving REBLOZYL with baseline RBC transfusion burden of < 4 units/8 weeks who achieved mHI-E during weeks 1 to 48 (n = 32/46).



73% (n = 66/90) of patients who achieved mHI-E ≥ 8 weeks during weeks 1 to 48 received at least 1 dose increase²²

ANALYSIS LIMITATIONS

- The primary endpoint of the study was transfusion independence defined as the absence of any RBC transfusion during any consecutive 8-week period occurring within weeks 1 through 24¹
 - Primary endpoint data: 37.9% (58/153) for REBLOZYL vs 13.2% (10/76) for placebo
- The mHI-E analysis is a broader analysis than transfusion independence. The analysis included patients that did not meet the primary endpoint of transfusion independence²²:
 - Those who achieved transfusion reduction of ≥ 4 units over 8 weeks (with higher baseline transfusion burden)
 - Those whose Hgb increased by ≥ 1.5 g/dL for 8 weeks in the absence of transfusions (with lower baseline transfusion burden)
- Patients may have experienced multiple periods of response intermittently between periods without response over the 24-week assessment period and extension phase through 25 to 48 weeks²²
- All patients in both arms were eligible to receive BSC, which included RBC transfusions as needed¹
- These exploratory analyses should not be interpreted to determine treatment difference between arms in these select endpoints because of potential selection bias, insufficient sample size, and a higher probability of making a false positive finding

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

Hypertension

Hypertension was reported in 10.7% (61/571) of REBLOZYL-treated patients. Across clinical studies, the incidence of Grade 3 to 4 hypertension ranged from 1.8% to 8.6%. In adult patients with MDS with normal baseline blood pressure, 26 (29.9%) patients developed SBP ≥ 130 mm Hg and 23 (16.4%) patients developed DBP ≥ 80 mm Hg. Monitor blood pressure prior to each administration. Manage new or exacerbations of preexisting hypertension using anti-hypertensive agents.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

Discontinuations and dose modifications in the safety population

- The safety of REBLOZYL at the recommended dose and schedule was evaluated in 242 patients with MDS-RS (n = 192) or other myeloid neoplasms (n = 50)¹

DISCONTINUATIONS AND DOSE MODIFICATIONS IN THE SAFETY POPULATION¹

4.5%

(n = 11/242)

Discontinuations due to adverse reactions

of patients who received REBLOZYL discontinued treatment due to an adverse reaction

2.9%

(n = 7/242)

Dose reductions due to adverse reactions

of patients who received REBLOZYL required a dose reduction due to an adverse reaction

REBLOZYL dose delays and reductions due to Hgb levels

8.5%

(n = 13/153)

of patients receiving REBLOZYL required dose delays due to predose Hgb levels ≥ 11.5 g/dL²⁵

2.0%

(n = 3/153)

of patients receiving REBLOZYL required dose reductions due to Hgb increase ≥ 2 g/dL vs predose Hgb level of prior treatment cycle²⁵

Data cutoff: July 1, 2019.²⁵

IMPORTANT SAFETY INFORMATION (CONT'D)

WARNINGS AND PRECAUTIONS (CONT'D)

Embryo-Fetal Toxicity

REBLOZYL may cause fetal harm when administered to a pregnant woman. REBLOZYL caused increased post-implantation loss, decreased litter size, and an increased incidence of skeletal variations in pregnant rat and rabbit studies. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 3 months after the final dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

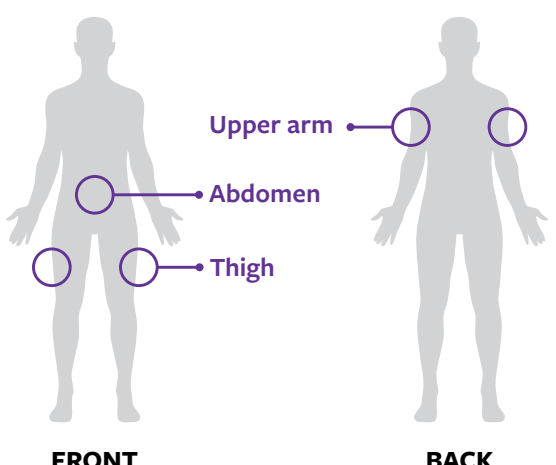
Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

Instructions for subcutaneous administration

REBLOZYL IS ADMINISTERED SUBCUTANEOUSLY AND IS AVAILABLE IN 2 VIAL SIZES (25 mg AND 75 mg)¹

- Prior to injection, allow solution to reach room temperature for a more comfortable injection

REBLOZYL SHOULD BE RECONSTITUTED AND ADMINISTERED BY A HEALTHCARE PROFESSIONAL¹

Step 1: Verify correct dose for the patient¹	<ul style="list-style-type: none">• Calculate the exact total dosing volume of 50 mg/mL solution required for the patient
Step 2: Plan and prep for injection¹	<ul style="list-style-type: none">• Slowly withdraw the dosing volume of the reconstituted REBLOZYL solution from the single-dose vial(s) into a syringe• Divide doses requiring larger reconstituted volumes (ie, >1.2 mL) into separate similar-volume injections and inject into separate sites
Step 3: Subcutaneous administration¹	<ul style="list-style-type: none">• If multiple injections are required, use a new syringe and needle for each SC injection <p style="text-align: center;">Administer REBLOZYL into one or more of the following sites by SC injection:</p>  <p>The diagram illustrates two human silhouettes, one facing forward (FRONT) and one facing backward (BACK). On the front view, three injection sites are marked with circles: one on the upper arm, one on the abdomen, and one on the thigh. On the back view, two injection sites are marked with circles on the upper arm. Labels with leader lines point to these sites: 'Upper arm' points to the sites on both views, 'Abdomen' points to the site on the front view, and 'Thigh' points to the site on the front view. The labels 'FRONT' and 'BACK' are centered below their respective silhouettes.</p>

NOTE: DISCARD ANY UNUSED PORTION. DO NOT POOL UNUSED PORTIONS FROM THE VIALS. DO NOT ADMINISTER MORE THAN 1 DOSE FROM A VIAL. DO NOT MIX WITH OTHER MEDICATIONS.¹

IMPORTANT SAFETY INFORMATION (CONT'D)

ADVERSE REACTIONS

Grade ≥ 3 ($\geq 2\%$) adverse reactions included fatigue, hypertension, syncope and musculoskeletal pain. A fatal adverse reaction occurred in 5 (2.1%) patients.

The most common ($\geq 10\%$) adverse reactions included fatigue, musculoskeletal pain, dizziness, diarrhea, nausea, hypersensitivity reactions, hypertension, headache, upper respiratory tract infection, bronchitis, and urinary tract infection.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspaterecept-aamt)
for injection 25mg • 75mg

Storing REBLOZYL

REBLOZYL REQUIRES COLD STORAGE



STORAGE OF UNRECONSTITUTED VIAL¹

- Store unconstituted vials refrigerated at 2°C to 8°C (36°F to 46°F) in original carton to protect from light
- Do not freeze



STORAGE OF RECONSTITUTED SOLUTION¹

- If the reconstituted solution is not used immediately, store at room temperature at 20°C to 25°C (68°F to 77°F) in the original vial for up to 8 hours. Discard if not used within 8 hours of reconstitution
- Alternatively, store refrigerated at 2°C to 8°C (36°F to 46°F) for up to 24 hours in the original vial
 - Remove from refrigerated condition 15 to 30 minutes prior to injection to allow solution to reach room temperature for a more comfortable injection
 - Discard if not used within 24 hours of reconstitution
- Do not freeze the reconstituted solution

IMPORTANT SAFETY INFORMATION (CONT'D)

LACTATION

It is not known whether REBLOZYL is excreted into human milk or absorbed systemically after ingestion by a nursing infant. REBLOZYL was detected in milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be present in human milk. Because many drugs are excreted in human milk, and because of the unknown effects of REBLOZYL in infants, a decision should be made whether to discontinue nursing or to discontinue treatment. Because of the potential for serious adverse reactions in the breastfed child, breastfeeding is not recommended during treatment and for 3 months after the last dose.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

Thrombosis/Thromboembolism

In adult patients with beta thalassemia, thromboembolic events (TEE) were reported in 8/223 (3.6%) REBLOZYL-treated patients. TEEs included deep vein thrombosis, pulmonary embolus, portal vein thrombosis, and ischemic stroke. Patients with known risk factors for thromboembolism (splenectomy or concomitant use of hormone replacement therapy) may be at further increased risk of thromboembolic conditions. Consider thromboprophylaxis in patients at increased risk of TEE. Monitor patients for signs and symptoms of thromboembolic events and institute treatment promptly.

Hypertension

Hypertension was reported in 10.7% (61/571) of REBLOZYL-treated patients. Across clinical studies, the incidence of Grade 3 to 4 hypertension ranged from 1.8% to 8.6%. In adult patients with MDS with normal baseline blood pressure, 26 (29.9%) patients developed SBP \geq 130 mm Hg and 23 (16.4%) patients developed DBP \geq 80 mm Hg. Monitor blood pressure prior to each administration. Manage new or exacerbations of preexisting hypertension using anti-hypertensive agents.

Embryo-Fetal Toxicity

REBLOZYL may cause fetal harm when administered to a pregnant woman. REBLOZYL caused increased post-implantation loss, decreased litter size, and an increased

incidence of skeletal variations in pregnant rat and rabbit studies. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 3 months after the final dose.

ADVERSE REACTIONS

Grade \geq 3 (\geq 2%) adverse reactions included fatigue, hypertension, syncope and musculoskeletal pain. A fatal adverse reaction occurred in 5 (2.1%) patients.

The most common (\geq 10%) adverse reactions included fatigue, musculoskeletal pain, dizziness, diarrhea, nausea, hypersensitivity reactions, hypertension, headache, upper respiratory tract infection, bronchitis, and urinary tract infection.

LACTATION

It is not known whether REBLOZYL is excreted into human milk or absorbed systemically after ingestion by a nursing infant. REBLOZYL was detected in milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be present in human milk. Because many drugs are excreted in human milk, and because of the unknown effects of REBLOZYL in infants, a decision should be made whether to discontinue nursing or to discontinue treatment. Because of the potential for serious adverse reactions in the breastfed child, breastfeeding is not recommended during treatment and for 3 months after the last dose.

Please click [here](#) for full Prescribing Information for REBLOZYL.

References: 1. REBLOZYL [Prescribing Information]. Summit, NJ: Celgene Corporation; 2020. 2. Greenberg PL, Tuechler H, Schanz J, et al. Revised international prognostic scoring system for myelodysplastic syndromes. *Blood*. 2012;120(12):2454-2465. 3. Steensma DP, Komrokji RS, Stone RM, et al. Disparity in perceptions of disease characteristics, treatment effectiveness, and factors influencing treatment adherence between physicians and patients with myelodysplastic syndromes. *Cancer*. 2014;120(11):1670-1676. 4. Varney ME, Melgar K, Niederkorn M, Smith M, Barreiro L, Starczynowski DT. Deconstructing innate immune signaling in myelodysplastic syndromes. *Exp Hematol*. 2015;43(8):587-598. 5. Ramsey SD, McCune JS, Blough DK, et al. Patterns of blood product use among patients with myelodysplastic syndrome. *Vox Sang*. 2012;102(4):331-337. 6. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines™) for Myelodysplastic Syndromes V.3.2021. © National Comprehensive Cancer Network, Inc. 2021. All rights reserved. Accessed January 15, 2021. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way. 7. Papaemmanuil E, Gerstung M, Malcovati L, et al. Clinical and biological implications of driver mutations in myelodysplastic syndromes. *Blood*. 2013;122(22):3616-3627. 8. Arber DA, Orazi A, Hasserjian R, et al. The 2016 revision to the World Health Organization classification of myeloid neoplasms and acute leukemia. *Blood*. 2016;127(20):2391-2405. 9. US Government Printing Office. The International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM): D-46.B refractory cytopenia with multilineage dysplasia and ring sideroblasts. <https://www.icd10data.com/ICD10CM/Codes/C00-D49/D37-D48/D46-/D46>. Accessed March 10, 2020. 10. Malcovati L, Cazzola M. Recent advances in the understanding of myelodysplastic syndromes with ring sideroblasts. *Br J Haematol*. 2016;174(6):847-858. 11. Aoyama Y, Sakai K, Kodaka T, et al. Myelodysplastic/myeloproliferative neoplasm with ring sideroblasts and thrombocytosis (MDS/MPN with RS-T) complicated by hyperleukocytosis and gene analysis in relation to leukocytosis. *J Clin Exp Hematop*. 2019;59(1):29-33. 12. Sever C, Abbott CL, de Baca ME. Bone marrow synoptic reporting for hematologic neoplasms: guideline from the College of American Pathologists Pathology and Laboratory Quality Center. *Arch Pathol Lab Med*. 2016;140(9):932-949. 13. Santini V. Anemia as the main manifestation of myelodysplastic syndromes. *Semin Hematol*. 2015;52(4):348-356. 14. Cazzola M, Malcovati L. Myelodysplastic syndromes—coping with ineffective hematopoiesis. *N Engl J Med*. 2005;352(6):536-538. 15. Fontenay-Roupie M, Bouscary D, Guesnu M, et al. Ineffective erythropoiesis in myelodysplastic syndromes: correlation with Fas expression but not with lack of erythropoietin receptor signal transduction. *Br J Haematol*. 1999;106(2):464-473. 16. Liang R, Ghaffari S. Advances in understanding the mechanisms of erythropoiesis in homeostasis and disease. *Br J Haematol*. 2016;174(5):661-673. 17. Ponka P, Koury MJ, Sheftel AD. Erythropoiesis, hemoglobin synthesis, and erythroid mitochondrial iron homeostasis. In: Ferreira GC, ed. *Handbook of Porphyrin Science: with Applications to Chemistry, Physics, Materials Science, Engineering, Biology and Medicine*. Vol 27. Singapore: World Scientific Publishing Co.; 2014. 18. Lodish H, Flygare J, Chou S. From stem cell to erythroblast: regulation of red cell production at multiple levels by multiple hormones. *IUBMB Life*. 2010;62(7):492-496. 19. Fortunel NO, Hatzfeld A, Hatzfeld JA. Transforming growth factor- β pleiotropic role in the regulation of hematopoiesis. *Blood*. 2000;96(6):2022-2036. 20. Suragani RN, Cadena SM, Cawley SM, et al. Transforming growth factor- β superfamily ligand trap ACE-536 corrects anemia by promoting late-stage erythropoiesis. *Nat Med*. 2014;20(4):408-414. 21. Suragani RNV, Cawley SM, Li R. Modified activin receptor IIB ligand trap mitigates ineffective erythropoiesis and disease complications in murine β -thalassemia. *Blood*. 2014;123(25):3864-3872. 22. Data on file. Celgene Corporation. Summit, New Jersey. 23. Fenaux P, Platzbecker U, Mufti GJ, et al. Luspatercept in patients with lower-risk myelodysplastic syndromes. *N Engl J Med*. 2020;382(2):140-151. 24. Fenaux P, Platzbecker U, Mufti GJ, et al. Luspatercept in patients with lower-risk myelodysplastic syndromes. *N Engl J Med*. 2020;382(2 suppl):140-151. 25. Platzbecker U, Fenaux P, Mufti G, et al. Assessment of dose-dependent response to luspatercept in patients with lower-risk myelodysplastic syndromes with ring sideroblasts in the phase 3 MEDALIST trial. Poster presented at: The 25th Congress of the European Hematology Association (EHA); June 11-14, 2020.

Reblozyl[®]
(luspatercept-aamt)
for injection 25mg • 75mg

BMS Access Support® Can Provide Patient Access and Reimbursement Assistance

Bristol Myers Squibb is committed to helping patients gain access to their prescribed BMS medications. That's why we offer BMS Access Support. BMS Access Support provides resources to help patients understand their insurance coverage. In addition, we can share information on sources of financial support, including co-pay assistance for eligible commercially insured patients.



How BMS Access Support May Help

Find out how BMS can work with patients and their healthcare providers to help access a prescribed BMS medication.



Financial Support Options

There may be programs and services that could help with the cost of treatment. Learn about what options are available.



Additional Resources

We provide videos, tools, and other resources that may help with your access and reimbursement needs.

Have Questions About Our Program or Possible Financial Support?

If you have questions about coverage for a prescribed BMS medication, BMS Access Support may be able to help. Patients and their healthcare provider can complete an enrollment form to learn about programs that may be of assistance. Visit our website or contact BMS Access Support to learn more.



Call Bristol Myers Squibb Access Support at **1-800-861-0048**, 8 AM to 8 PM ET, Monday–Friday



Visit www.BMSAccessSupport.com

The accurate completion of reimbursement- or coverage-related documentation is the responsibility of the healthcare provider and the patient. Bristol Myers Squibb and its agents make no guarantee regarding reimbursement for any service or item.



Reblozyl[®]

(luspatercept-aamt)

for injection 25mg • 75mg

VISIT
[REBLOZYLPRO.COM/MDS/EXPLORE](https://reblozylpro.com/mds/explore)

REBLOZYL is indicated for the treatment of anemia failing an erythropoiesis stimulating agent and requiring 2 or more red blood cell units over 8 weeks in adult patients with very low- to intermediate-risk myelodysplastic syndromes with ring sideroblasts (MDS-RS) or with myelodysplastic/myeloproliferative neoplasm with ring sideroblasts and thrombocytosis (MDS/MPN-RS-T).

REBLOZYL is not indicated for use as a substitute for RBC transfusions in patients who require immediate correction of anemia.

SELECT WARNINGS AND PRECAUTIONS

Thrombosis/Thromboembolism

In adult patients with beta thalassemia, thromboembolic events (TEE) were reported in 8/223 (3.6%) REBLOZYL-treated patients. TEEs included deep vein thrombosis, pulmonary embolus, portal vein thrombosis, and ischemic stroke. Patients with known risk factors for thromboembolism (splenectomy or concomitant use of hormone replacement therapy) may be at further increased risk of thromboembolic conditions. Consider thromboprophylaxis in patients at increased risk of TEE. Monitor patients for signs and symptoms of thromboembolic events and institute treatment promptly.

Hypertension

Hypertension was reported in 10.7% (61/571) of REBLOZYL-treated patients. Across clinical studies, the incidence of Grade 3 to 4 hypertension ranged from 1.8% to 8.6%. In adult patients with MDS with normal baseline blood pressure, 26 (29.9%) patients developed SBP \geq 130 mm Hg and 23 (16.4%) patients developed DBP \geq 80 mm Hg. Monitor blood pressure prior to each administration. Manage new or exacerbations of preexisting hypertension using anti-hypertensive agents.

Please see additional Important Safety Information throughout and [click here](#) for full Prescribing Information for REBLOZYL.

REBLOZYL is a trademark of Celgene Corporation, a Bristol-Myers Squibb Company.
Access Support is a registered trademark of Bristol-Myers Squibb Company.
REBLOZYL is licensed from Acceleron Pharma Inc.
© 2021 Bristol-Myers Squibb Company.
2007-US-2100307 09/21

 Bristol Myers Squibb[™] |  ACCELERON