

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

216157Orig1s000

LABELING

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use OXBRYTA safely and effectively. See full prescribing information for OXBRYTA.

OXBRYTA® (voxelotor) tablets, for oral use
OXBRYTA® (voxelotor) tablets for oral suspension
Initial U.S. Approval: 2019

RECENT MAJOR CHANGES

Indications and Usage (1) 12/2021
Dosage and Administration (2) 12/2021

INDICATIONS AND USAGE

OXBRYTA is a hemoglobin S polymerization inhibitor indicated for the treatment of sickle cell disease in adults and pediatric patients 4 years of age and older.

This indication is approved under accelerated approval based on increase in hemoglobin (Hb). Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s). (1)

DOSAGE AND ADMINISTRATION

OXBRYTA can be taken with or without food. (2.7)

Recommended dosage:

- Adults and pediatric patients 12 years and older: 1,500 mg orally once daily. (2.1)
- Pediatric patients 4 to less than 12 years: Dosing with OXBRYTA is based on body weight. See Table 1 for complete dosing recommendations. (2.2)

Recommended dosage for severe hepatic impairment (Child Pugh C):

- Adults and pediatric patients 12 years and older: 1,000 mg orally once daily. (2.3)
- Pediatric patients 4 to less than 12 years: Reduce the dose of OXBRYTA based on body weight. See Table 2 for complete dosing recommendations. (2.4)

DOSAGE FORMS AND STRENGTHS

- Tablets: 500 mg (3)
- Tablets for oral suspension: 300 mg (3)

CONTRAINDICATIONS

Prior drug hypersensitivity to voxelotor or excipients. (4)

WARNINGS AND PRECAUTIONS

- Hypersensitivity Reactions: Observe for signs and symptoms and manage promptly. (5.1)
- Laboratory Test Interference: Perform quantification of hemoglobin species when patient is not receiving OXBRYTA. (5.2)

ADVERSE REACTIONS

Most common adverse reactions (incidence $\geq 10\%$ with a difference of $>3\%$ compared to placebo) are headache, diarrhea, abdominal pain, nausea, rash, and pyrexia. (6.1)

Most common adverse reactions (incidence $>10\%$) reported in pediatric patients 4 to <12 years are pyrexia, vomiting, rash, abdominal pain, diarrhea, and headache. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Global Blood Therapeutics, Inc. at 1-833-GBT-4YOU (1-833-428-4968) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Sensitive CYP3A4 Substrates: Avoid coadministration of sensitive CYP3A4 substrates with a narrow therapeutic index. (7.2)
- Strong or moderate CYP3A4 Inducers: Avoid coadministration with strong or moderate CYP3A4 inducers. If unavoidable, increase the dose of OXBRYTA. (2.5, 2.6, 7.1)

USE IN SPECIFIC POPULATIONS

Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA approved patient labeling.

Revised: 12/2021

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

OXBRYTA is indicated for the treatment of sickle cell disease (SCD) in adults and pediatric patients 4 years of age and older.

This indication is approved under accelerated approval based on increase in hemoglobin (Hb) [see *Clinical Studies (14)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s).

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage for Adults and Pediatric Patients 12 Years and Older

The recommended dosage of OXBRYTA is 1,500 mg orally once daily.

2.2 Recommended Dosage for Pediatric Patients 4 Years to Less Than 12 Years

For pediatric patients 4 years and older, select the appropriate product (OXBRYTA tablets or OXBRYTA tablets for oral suspension) based on patient's ability to swallow tablets and patient weight.

The recommended dosage of OXBRYTA for pediatric patients 4 years to less than 12 years is shown in Table 1.

Table 1: Recommended OXBRYTA Dosage in Pediatric Patients 4 Years to Less Than 12 Years

Body Weight	Recommended Dose (once daily)
40 kg or greater	1,500 mg
20 kg to less than 40 kg	900 mg
10 kg to less than 20 kg	600 mg

2.3 Recommended Dosage for Adults and Pediatric Patients 12 Years and Older with Hepatic Impairment

The recommended dosage of OXBRYTA in adults and pediatric patients 12 years and older with severe hepatic impairment (Child Pugh C) is 1,000 mg orally once daily.

No dosage adjustment of OXBRYTA is required for patients with mild or moderate hepatic impairment [see *Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)*].

2.4 Recommended Dosage for Pediatric Patients 4 Years to Less Than 12 Years with Hepatic Impairment

The recommended dosage of OXBRYTA in pediatric patients 4 years to less than 12 years with severe hepatic impairment (Child Pugh C) is described in Table 2.

No dosage adjustment of OXBRYTA is required for patients with mild or moderate hepatic impairment [see *Use in Specific Populations (8.6)* and *Clinical Pharmacology (12.3)*].

Table 2: Recommended OXBRYTA Dosage in Pediatric Patients 4 Years to Less Than 12 Years with Severe Hepatic Impairment (Child Pugh C)

Body Weight	Recommended Dose (once daily)
40 kg or greater	1,000 mg (two 500 mg tablets) or 900 mg (three 300 mg tablets for oral suspension)
20 kg to less than 40 kg	600 mg
10 kg to less than 20 kg	300 mg

2.5 Recommended Dosage of OXBRYTA for Adults and Pediatric Patients 12 Years and Older When Used with Concomitant Strong or Moderate CYP3A4 Inducers

CYP3A4 Inducers

Avoid concomitant use of strong or moderate CYP3A4 inducers with OXBRYTA [see *Drug Interactions (7.1)* and *Clinical Pharmacology (12.3)*].

If concomitant use of strong CYP3A4 inducers is unavoidable, the recommended dosage of OXBRYTA is 2,500 mg orally once daily. If concomitant use of moderate CYP3A4 inducers is unavoidable, the recommended dosage of OXBRYTA is 2,000 mg orally once daily.

2.6 Recommended Dosage of OXBRYTA for Pediatric Patients 4 Years to Less Than 12 Years When Used with Concomitant Strong or Moderate CYP3A4 Inducers

CYP3A4 Inducers

Avoid concomitant use of strong or moderate CYP3A4 inducers with OXBRYTA [see *Drug Interactions (7.1)* and *Clinical Pharmacology (12.3)*]. If concomitant use of strong or moderate CYP3A4 inducers is unavoidable, see Table 3 for dosage.

Table 3: OXBRYTA Recommended Dosage for Pediatric Patients 4 Years to Less Than 12 Years When Used with Concomitant Strong or Moderate CYP3A4 Inducers

Body Weight	Recommended Dose (once daily)	
	Concomitant Use of Strong CYP3A4 Inducers	Concomitant Use of Moderate CYP3A4 Inducers
40 kg or greater	2,500 mg (five 500 mg tablets) or 2,400 mg (eight 300 mg tablets for oral suspension)	2,000 mg (four 500 mg tablets) or 2,100 mg (seven 300 mg tablets for oral suspension)
20 kg to less than 40 kg	1,500 mg	1,200 mg
10 kg to less than 20 kg	900 mg	900 mg

2.7 Important Administration Instructions

Administer OXBRYTA orally, once daily with or without food. If a dose is missed, or not administered entirely, resume dosing the following day.

OXBRYTA may be given with or without hydroxyurea.

OXBRYTA 500 mg Tablets

Patients should swallow OXBRYTA tablets whole. Do not cut, crush, or chew the tablets.

OXBRYTA 300 mg Tablets for Oral Suspension

Patients should disperse tablets for oral suspension immediately before administration in a cup and in room temperature clear liquid (such as drinking water or clear soda) before swallowing.

Do not swallow whole, cut, crush, or chew the tablets for oral suspension.

Recommended Daily Dose	Number of Tablets for Oral Suspension	Minimum Recommended Volume of Clear Drink
300 mg	1	5 mL (1 teaspoon)
600 mg	2	10 mL (2 teaspoons)
900 mg	3	15 mL (3 teaspoons)
1,200 mg	4	20 mL (4 teaspoons)
1,500 mg	5	25 mL (5 teaspoons)

2,100 mg	7	35 mL (7 teaspoons)
2,400 mg	8	40 mL (8 teaspoons)

- After the tablets start to disintegrate, swirl the contents of the cup until the tablets are dispersed, wait 1 to 5 minutes, swirl the contents of the cup again, and then orally administer the contents of the cup. The tablet(s) will not completely dissolve; there will still be small tablet clumps in the mixture.
- Resuspend any residue left in the cup in more clear drink and administer. Repeat until no tablet residue is left in the cup.

Tablets for oral suspension may be substituted for tablets in adults and pediatric patients 12 years and older with difficulty swallowing the tablets. Use the number of tablets for oral suspension needed to achieve the recommended dose.

3 DOSAGE FORMS AND STRENGTHS

Tablets: 500 mg light yellow to yellow, oval shaped, biconvex, debossed with “GBT 500” on one side.

Tablets for oral suspension: 300 mg light yellow to yellow, round shaped, debossed with “300 D” on one side.

4 CONTRAINDICATIONS

OXBRYTA is contraindicated in patients with a history of serious drug hypersensitivity reaction to voxelotor or excipients. Clinical manifestations may include generalized rash, urticaria, mild shortness of breath, mild facial swelling, and eosinophilia [*see Warnings and Precautions (5.1) and Adverse Reactions (6.1)*].

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Reactions

Serious hypersensitivity reactions after administration of OXBRYTA have occurred in <1% of patients treated. Clinical manifestations may include generalized rash, urticaria, mild shortness of breath, mild facial swelling, and eosinophilia [*see Adverse Reactions (6.1)*].

If hypersensitivity reactions occur, discontinue OXBRYTA and administer appropriate medical therapy. Do not reinitiate OXBRYTA in patients who experience these symptoms with previous use.

5.2 Laboratory Test Interference

OXBRYTA administration may interfere with measurement of Hb subtypes (HbA, HbS, and HbF) by high-performance liquid chromatography (HPLC) [*see Drug Interactions (7.3)*]. If precise

quantitation of Hb species is required, chromatography should be performed when the patient has not received OXBRYTA therapy in the immediately preceding 10 days.

6 ADVERSE REACTIONS

The following clinically significant adverse reaction is discussed in other sections of the labeling:

- Hypersensitivity Reactions [*see Contraindications (4) and Warnings and Precautions (5.1)*].

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Adults and Pediatric Patients 12 Years and Older

The safety of OXBRYTA was evaluated in the HOPE trial based on data from 88 patients with SCD who received OXBRYTA 1,500 mg and 91 patients who received placebo orally once daily [*see Clinical Studies (14.1)*]. Seventy-four patients received OXBRYTA 1,500 mg once daily for ≥ 24 weeks, 65 patients for ≥ 48 weeks, and 63 patients completed the 72-week treatment period.

In patients who received OXBRYTA 1,500 mg once daily the median age was 24 years (range: 12 to 59 years); 65% female; 66% Black or African American and 23% Arab/Middle Eastern; and 65% receiving hydroxyurea at baseline.

Serious adverse reactions occurred in 3% (3/88) of patients receiving OXBRYTA 1,500 mg, which included headache, drug hypersensitivity, and pulmonary embolism occurring in 1 patient each. Permanent discontinuation due to an adverse reaction (Grades 1-4) occurred in 5% (4/88) of patients who received OXBRYTA 1,500 mg.

Dosage modifications (dose reduction or dosing interruption) due to an adverse reaction occurred in 48% (42/88) of patients who received OXBRYTA. Most frequent adverse reactions requiring dosage modifications occurring in more than two patients who received OXBRYTA 1,500 mg included diarrhea and rash.

The safety profile observed in pediatric patients 12 to <17 years treated with OXBRYTA in the HOPE trial was similar to that seen in adult patients.

The most common adverse reactions occurring in $\geq 10\%$ of patients treated with OXBRYTA 1,500 mg with a difference of $>3\%$ compared to placebo are summarized in Table 4.

Table 4: Adverse Reactions (≥10%) in Patients Receiving OXBRYTA with a Difference Between Arms of >3% Compared to Placebo in HOPE

Adverse Reaction^a	OXBRYTA 1,500 mg (N=88)	Placebo (N=91)
Headache	32%	25%
Diarrhea	23%	11%
Abdominal Pain ^b	23%	16%
Nausea	19%	10%
Rash ^c	15%	11%
Pyrexia	15%	8%

^a Adverse reactions were Grades 1 or 2 except for Grade 3 headache (2), diarrhea (1), nausea (1), rash (1), and rash generalized (3)

^b Abdominal pain (grouped PTs) includes the following PTs: abdominal pain, lower abdominal pain, and upper abdominal pain

^c Rash (grouped PTs) includes the following PTs: rash, urticaria, generalized rash, macular rash, maculo-papular rash, pruritic rash, and papular rash

Clinically relevant adverse reactions occurring in <10% of patients included:

- Drug hypersensitivity

Pediatric Patients 4 to <12 Years

The safety of OXBRYTA in pediatric patients 4 to <12 years with SCD was evaluated in an open-label, Phase 2 study [see *Clinical Studies (14.2)*]. In this study, 45 patients 4 to <12 years of age received doses of OXBRYTA tablets for oral suspension based on weight at baseline. Thirty-five patients received OXBRYTA for 24 weeks and 26 patients for 48 weeks. The most common adverse reactions (>10%) reported in pediatric patients 4 to <12 years were pyrexia (36%), vomiting (33%), rash (20%), abdominal pain (18%), diarrhea (18%), and headache (18%).

The overall safety profile of OXBRYTA in pediatric patients 4 to <12 years was similar to that seen in adults and pediatric patients 12 years and older.

7 DRUG INTERACTIONS

7.1 Effect of Other Drugs on Voxelotor

Strong or Moderate CYP3A4 Inducers

Coadministration of strong or moderate CYP3A4 inducers may decrease voxelotor plasma and whole blood concentrations and may lead to reduced efficacy.

Avoid coadministration of OXBRYTA with strong or moderate CYP3A4 inducers. Increase the OXBRYTA dosage when coadministration with a strong or moderate CYP3A4 inducer is unavoidable [see [Dosage and Administration \(2.5, 2.6\)](#) and [Clinical Pharmacology \(12.3\)](#)].

7.2 Effect of Voxelotor on Other Drugs

Voxelotor increased the systemic exposure of midazolam (a sensitive CYP3A4 substrate) [see [Clinical Pharmacology \(12.3\)](#)]. Avoid coadministration of OXBRYTA with sensitive CYP3A4 substrates with a narrow therapeutic index. If concomitant use is unavoidable, consider dose reduction of the sensitive CYP3A4 substrate(s).

7.3 Laboratory Test Interference

OXBRYTA administration may interfere with measurement of Hb subtypes (HbA, HbS, and HbF) by HPLC [see [Warnings and Precautions \(5.2\)](#)]. If precise quantitation of Hb species is required, chromatography should be performed when the patient has not received OXBRYTA therapy in the immediately preceding 10 days.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on OXBRYTA use in pregnant women to evaluate for a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. In animal reproduction studies, oral administration of voxelotor to pregnant rats and rabbits during organogenesis at exposures up to 2.8-times (rats) and 0.3-times (rabbits) the exposure at the maximum recommended human dose resulted in no adverse developmental effects (*see Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is approximately 14% and up to 43%, respectively. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes.

There are adverse effects on maternal and fetal outcomes associated with SCD in pregnancy (*see Clinical Considerations*). OXBRYTA should only be used during pregnancy if the benefit of the drug outweighs the potential risk.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Women with SCD have an increased risk of adverse pregnancy outcomes for the mother and the fetus. Pregnant women are at greater risk for vasoocclusive crises, pre-eclampsia, eclampsia, and maternal mortality. For the fetus, there is an increased risk for intrauterine growth restriction, preterm delivery, low birth weight, and perinatal mortality.

Data

Animal Data

In embryo-fetal development studies, voxelotor was administered orally to pregnant rats at 15, 50, and 250 mg/kg/day (gestation days 7 through 17) and rabbits at 25, 75, and 150 mg/kg/day (gestation days 7 through 19) through organogenesis. Maternal toxicity was observed at the highest dose levels in these studies equivalent to 2.8-times (rats) and 0.3-times (rabbits) the exposures in patients receiving OXBRYTA at the recommended daily dose. There was no evidence of adverse developmental outcomes in rats or rabbits.

In a pre- and postnatal development study, voxelotor was administered orally to pregnant rats at 15, 50 and 250 mg/kg/day (gestation day 6 through lactation day 20). Maternal gestational body weights were decreased at 250 mg/kg/day, which continued to the end of lactation. The findings in offspring included reduced survival and reduced body weights throughout lactation, weaning and maturation. The effects in offspring were observed at the maternal dose of 250 mg/kg/day with an exposure approximately 2.8-times the exposure in patients at the recommended dose.

8.2 Lactation

Risk Summary

There are no data on the presence of voxelotor in human milk, the effects on the breastfed child, or the effects on milk production. Voxelotor was detected in milk in lactating rats. Plasma concentrations of voxelotor in pregnant rats were higher than the concentration in milk. When a drug is present in animal milk, it is likely that the drug will be present in human milk. The concentration of voxelotor in animal milk does not necessarily predict the concentration of drug in human milk. Because of the potential for serious adverse reactions in the breastfed child, including changes in the hematopoietic system, advise patients that breastfeeding is not recommended during treatment with OXBRYTA, and for at least 2 weeks after the last dose.

8.4 Pediatric Use

The safety and effectiveness of OXBRYTA for SCD have been established in pediatric patients aged 4 years and older. The safety and efficacy of OXBRYTA in pediatric patients with SCD below the age of 4 years have not been established.

Use of OXBRYTA in pediatric patients 12 to <17 years for SCD is supported by evidence from an adequate and well-controlled study in adults and pediatric patients (HOPE trial). The HOPE trial enrolled 26 pediatric patients aged 12 to <17 years, in which 12 pediatric patients received OXBRYTA 1,500 mg once daily and 14 pediatric patients received OXBRYTA 900 mg once daily [see *Adverse Reactions (6.1)*, *Clinical Pharmacology (12.3)*, and *Clinical Studies (14.1)*].

Use of OXBRYTA in pediatric patients 4 to <12 years for SCD is supported by evidence from an open-label, Phase 2 study. The study enrolled 45 pediatric patients aged 4 to <12 years and 11 patients aged 12 to <17 years with SCD. Patients 12 to <17 years received OXBRYTA 1,500 mg once daily. Patients 4 to <12 years were administered OXBRYTA based on body weight.

OXBRYTA doses of 600 mg, 900 mg, or 1,500 mg once daily were administered to patients weighing 10 kg to <20 kg, 20 kg to <40 kg, or ≥40 kg, respectively [see [Adverse Reactions \(6.1\)](#), [Clinical Pharmacology \(12.3\)](#), and [Clinical Studies \(14.2\)](#)].

Pharmacokinetics, safety and efficacy were similar across the pediatric age groups and across pediatric and adult patients [see [Dosage and Administration \(2\)](#), [Clinical Pharmacology \(12.3\)](#) and [Clinical Studies \(14\)](#)].

The adverse reactions observed were similar across the pediatric age groups and across pediatric and adult patients [see [Adverse Reactions \(6.1\)](#)].

8.5 Geriatric Use

Clinical studies of OXBRYTA did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

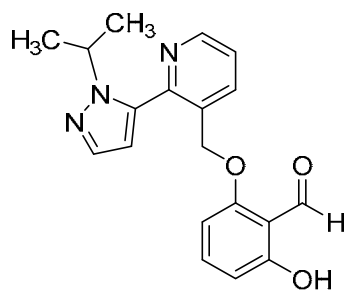
8.6 Hepatic Impairment

Severe hepatic impairment increases voxelotor exposures [see [Clinical Pharmacology \(12.3\)](#)]. Reduce OXBRYTA dose [see [Dosage and Administration \(2.3, 2.4\)](#)].

11 DESCRIPTION

OXBRYTA contains voxelotor, a hemoglobin S polymerization inhibitor. The chemical name of voxelotor is 2-hydroxy-6-((2-(1-isopropyl-1H-pyrazol-5-yl)pyridin-3-yl)methoxy)benzaldehyde with a molecular formula of C₁₉H₁₉N₃O₃ and a molecular weight of 337.4.

The chemical structure of voxelotor is:



Voxelotor is a white-to-yellow-to-beige compound in crystalline Form II of its free base. It is non-hygroscopic and highly soluble in common organic solvents such as acetone and toluene and insoluble in water.

Each OXBRYTA film-coated tablet for oral use contains 500 mg of voxelotor with the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, magnesium stearate, microcrystalline cellulose, and sodium lauryl sulfate. In addition, the film coating contains: polyethylene glycol 3350, polyvinyl alcohol, talc, titanium dioxide, and yellow iron oxide.

Each OXBRYTA tablet for oral suspension contains 300 mg of voxelotor with the following inactive ingredients: artificial grape flavor, colloidal silicon dioxide, croscarmellose sodium, iron oxide pigment, magnesium stearate, microcrystalline cellulose, and sucralose.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Voxelotor is a hemoglobin S (HbS) polymerization inhibitor that binds to HbS with a 1:1 stoichiometry and exhibits preferential partitioning to red blood cells (RBCs). By increasing the affinity of Hb for oxygen, voxelotor demonstrates dose-dependent inhibition of HbS polymerization. Nonclinical studies suggest that voxelotor may inhibit RBC sickling, improve RBC deformability, and reduce whole blood viscosity.

12.2 Pharmacodynamics

The pharmacodynamic effect of voxelotor treatment demonstrated a dose-dependent increase in Hb oxygen affinity as determined by the change in p50 (partial pressure of oxygen at which Hb oxygen saturation of 50% is achieved) that was linearly correlated with voxelotor exposure.

The pharmacodynamic effect of voxelotor treatment also demonstrated a dose-dependent reduction in clinical measures of hemolysis (indirect bilirubin and % reticulocytes).

Cardiac Electrophysiology

At plasma concentrations approximately 2-fold above therapeutic concentrations, voxelotor does not prolong QT interval to any clinically relevant extent.

12.3 Pharmacokinetics

Voxelotor is absorbed into plasma and is then distributed predominantly into RBCs due to its preferential binding to Hb. The major route of elimination of voxelotor is by metabolism with subsequent excretion of metabolites into urine and feces. The PK are linear and voxelotor exposures increased proportionally with either single or multiple doses (Table 5) in whole blood, plasma, and RBCs. Steady-state after repeated administration is reached within 8 days and exposures of voxelotor are consistent with accumulation predicted based on single dose data in patients with SCD.

Table 5: Pharmacokinetics Parameters of Voxelotor in Plasma and Whole Blood^a

PK Parameter	Voxelotor 1,500 mg Geometric Mean (%CV)
Plasma PK	
AUC _{0-24h} (µg·hr/mL)	278 (28.4)
C _{max} (µg/mL)	14 (24.5)

Half-life (hours)	38.7 (30.2)
Whole Blood PK	
AUC _{0-24h} (µg·hr/mL)	3,830 (33.5)
C _{max} (µg/mL)	180 (31)

^a Based on the 72-week population pharmacokinetic analysis.

In healthy subjects, voxelotor exposures were comparable when administered as tablet for oral suspension dispersed in water or as oral tablet swallowed whole.

Absorption

The median plasma and whole blood T_{max} of voxelotor after oral administration is 2 hours. The mean peak concentrations in whole blood and RBCs are observed between 6 and 18 hours after oral administration.

Effect of Food

A high-fat, high-calorie meal increased voxelotor AUC by 42% and C_{max} by 45% in whole blood relative to AUC and C_{max} in the fasted state. Similarly, AUC increased by 42% and C_{max} increased by 95% in plasma.

Distribution

Voxelotor apparent volume of distribution of the central compartment and peripheral compartment are 333 L and 72.3 L in plasma, respectively. Protein binding is 99.8% in vitro. The blood-to-plasma ratio is approximately 17:1 in patients with SCD.

Elimination

The geometric mean (%CV) terminal elimination half-life of voxelotor in patients with SCD is 38.7 hours (30.2%) with concentrations in plasma, whole blood, and RBCs declining in parallel. The apparent oral clearance of voxelotor was estimated as 6.1 L/h in plasma in patients with SCD.

Metabolism

In vitro and in vivo studies indicate that voxelotor is extensively metabolized through Phase I (oxidation and reduction), Phase II (glucuronidation) and combinations of Phase I and II metabolism. Metabolism of voxelotor is mediated by CYP3A4, CYP3A5, CYP2B6, CYP2C19, CYP2C9, UGT1A1, and UGT1A9.

Excretion

Following the administration of radiolabeled voxelotor, approximately 62.6% of the dose and its metabolites are excreted into feces (33.3% unchanged) and 35.5% in urine (0.08% unchanged).

Specific Populations

No clinically significant differences in the pharmacokinetics of voxelotor were observed based on age (12 to 59 years), sex, body weight (28 to 135 kg), or mild to severe renal impairment (creatinine clearance [CL_{cr}] 15-89 mL/min).

Pediatric Patients

The pharmacokinetic exposures of voxelotor in whole blood and plasma were similar between pediatric patients 4 to <17 years and adults following the recommended dosage [see [Dosage and Administration \(2\)](#)].

Patients with Renal Impairment

There was no clinically significant effect of renal function on the excretion of voxelotor. Following a single 900 mg dose of voxelotor, whole blood exposures in subjects with severe renal impairment (eGFR <30 mL/min/1.73 m²) were 25% lower compared to healthy controls.

The unbound plasma concentrations were comparable. OXBRYTA has not been evaluated in patients with end stage renal disease requiring dialysis.

Patients with Hepatic Impairment

The voxelotor AUC in whole blood were 14% and 15% higher in subjects with mild and moderate hepatic impairment (Child Pugh A and B) and 90% higher in subjects with severe hepatic impairment (Child Pugh C) compared to subjects with normal hepatic function.

Patients with HbSC Genotype

Voxelotor steady state whole blood AUC and C_{max} were 50% and 45% higher in HbSC genotype patients (n=11) compared to HbSS genotype (n=220) patients and voxelotor steady state plasma AUC and C_{max} were 23% and 15% higher in HbSC genotype patients compared to HbSS genotype patients.

Drug Interaction Studies

Clinical Studies and Model-Informed Approaches

Effect of Strong CYP3A4 Inhibitors on Voxelotor: concomitant use of OXBRYTA with itraconazole increased voxelotor AUC in healthy subjects by 11%.

Effect of Strong or Moderate CYP3A4 Inducers on Voxelotor: concomitant use of OXBRYTA with rifampin (a strong CYP3A4 inducer) is predicted to decrease voxelotor AUC in patients by up to 40%, and efavirenz (a moderate CYP3A4 inducer) is predicted to decrease voxelotor AUC in patients by up to 24%.

Effect of Acid Reducing Agents on Voxelotor: coadministration of omeprazole (proton pump inhibitor) with OXBRYTA did not alter voxelotor exposure.

Effect of Voxelotor on CYP450 Enzymes: in vivo voxelotor inhibits CYP3A4, but not CYP1A2, CYP2C9, CYP2C19, CYP2C8, or CYP2D6. The observed exposure increase of the CYP3A4 substrate midazolam in healthy subjects was 1.6-fold and the predicted increase in patients after multiple dosing is 2.5-fold.

Effect of Voxelotor on P-gp: concomitant use of OXBRYTA with digoxin (a P-gp substrate) did not alter digoxin to a clinically relevant extent.

In Vitro Studies

CYP Enzymes: voxelotor is a reversible and time-dependent inhibitor as well as an inducer of CYP2B6.

Transporter Systems: voxelotor is not an inhibitor of P-gp, BCRP, OATP1B1, OATP1B3, OCT2, OAT1, OAT3, MATE1, MATE2-K, or BSEP. Voxelotor is not a substrate of P-gp, BCRP, OATP1A2, OATP1B1, OATP1B3, or BSEP.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Voxelotor was not carcinogenic in a 26-week study in RasH2 transgenic mice at oral doses of 30, 150, or 500 mg/kg/day.

Voxelotor was not genotoxic in the reverse mutation bacterial (Ames) test, rat Comet assay, or rat micronucleus assay.

In a fertility and early embryonic development study, voxelotor was administered orally to rats at 15, 50, and 250 mg/kg/day. Males were dosed 28 days prior to mating through cohabitation and females were dosed 14 days prior to mating through gestation Day 7. Voxelotor had no effect on fertility or reproductive function. Sperm motility was decreased and changes in sperm morphology occurred at 250 mg/kg/day (approximately 5-times the human exposure at 1,500 mg/day).

14 CLINICAL STUDIES

14.1 Adults and Pediatric Patients 12 Years and Older

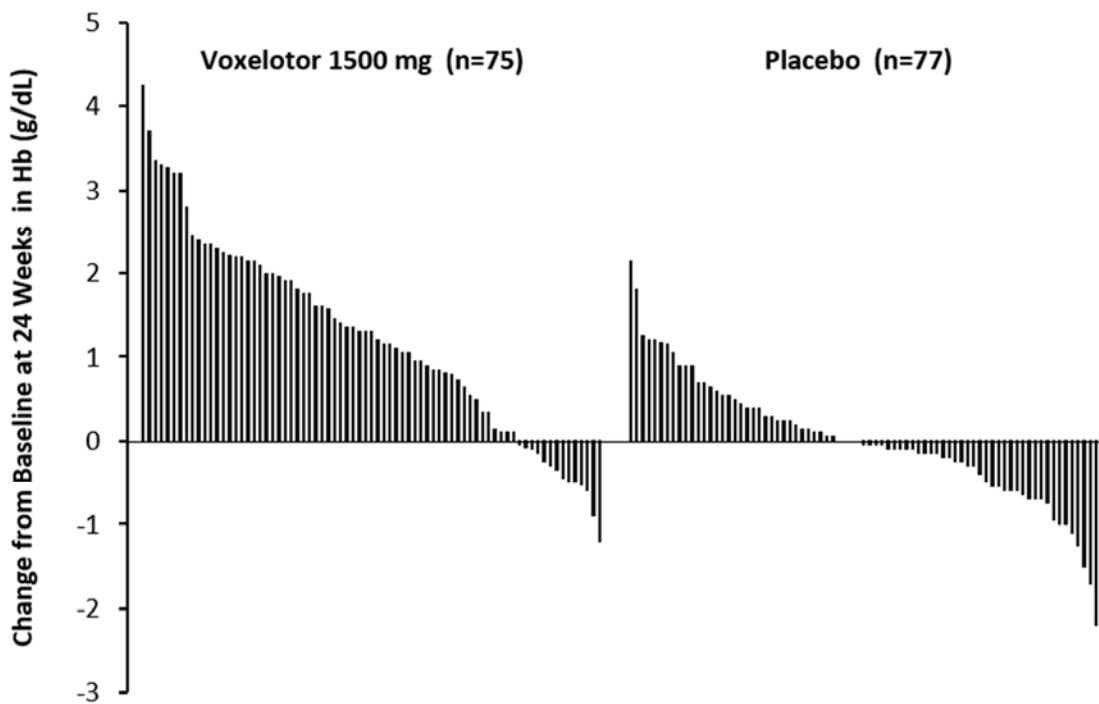
The efficacy and safety of OXBRYTA in SCD was evaluated in HOPE, a Phase 3 randomized, double-blind, placebo-controlled, multicenter trial [NCT 03036813]. In this study, 274 patients were randomized to daily oral administration of OXBRYTA 1,500 mg (N=90), OXBRYTA 900 mg (N=92), or placebo (N=92). Patients were included if they had from 1 to 10 vasoocclusive crisis (VOC) events within 12 months prior to enrollment and baseline

hemoglobin (Hb) ≥ 5.5 to ≤ 10.5 g/dL. Eligible patients on stable doses of hydroxyurea for at least 90 days were allowed to continue hydroxyurea therapy throughout the study. Randomization was stratified by patients already receiving hydroxyurea (yes, no), geographic region (North America, Europe, Other), and age (12 to <17 years, 18 to 65 years). The trial excluded patients who received red blood cell (RBC) transfusions within 60 days and erythropoietin within 28 days of enrollment, had renal insufficiency, uncontrolled liver disease, were pregnant, or lactating.

The majority of patients had HbSS or HbS/beta⁰-thalassemia genotype (90%) and were receiving background hydroxyurea therapy (65%). The median age was 24 years (range: 12 to 64 years); 46 (17%) patients were 12 to <17 years. Median baseline Hb was 8.5 g/dL (5.9 to 10.8 g/dL). One hundred and fifteen (42%) had 1 VOC event and 159 (58%) had 2 to 10 events within 12 months prior to enrollment. In the OXBRYTA 1,500 mg group, 63 (70%) patients completed the study through Week 72.

Efficacy was based on Hb response rate defined as a Hb increase of >1 g/dL from baseline to Week 24 in patients treated with OXBRYTA 1,500 mg versus placebo. The response rate for OXBRYTA 1,500 mg was 51.1% (46/90) compared to 6.5% (6/92) in the placebo group ($p < 0.001$). No outlier subgroups were observed. The distribution of Hb change from baseline for individual patients completing 24 weeks of treatment with OXBRYTA 1,500 mg or placebo is depicted in Figure 1.

Figure 1: Subject-level Change from Baseline in Hemoglobin at Week 24 in Patients Who Completed 24 Weeks of Treatment*



*Approximately 83% of all randomized patients completed 24 weeks of treatment.

Additional efficacy evaluation included change in Hb and percent change in indirect bilirubin and percent reticulocyte count from baseline to Week 24 (Table 6).

Table 6: Adjusted Mean (SE) Change from Baseline to Week 24 in Hemoglobin and Clinical Measures of Hemolysis

	OXBRYTA 1,500 mg QD (N=90)	Placebo (N=92)	P Value
Hemoglobin	1.1 g/dL (0.1)	-0.1 g/dL (0.1)	< 0.001
Indirect Bilirubin	-29.1% (3.5)	-2.8% (3.5)	< 0.001
Percent Reticulocyte Count	-18.0% (4.7)	6.8% (4.7)	< 0.001

QD = once daily; SE = standard error

14.2 Pediatric Patients 4 to <12 Years

The efficacy and safety of OXBRYTA in patients 4 to <12 years with SCD was evaluated in an open-label, multi-center, Phase 2 trial [NCT 02850406]. In this study, 45 patients 4 to <12 years and 11 patients 12 to <17 years received OXBRYTA. Patients 4 to <12 years received tablets for oral suspension based on body weight at baseline. OXBRYTA doses of 600 mg, 900 mg, or 1,500 mg once daily were administered to patients weighing 10 kg to <20 kg, 20 kg to <40 kg, or ≥40 kg, respectively. Patients 12 to <17 years received OXBRYTA 1,500 mg once daily.

Patients were included if their baseline hemoglobin (Hb) was ≤10.5 g/dL. Eligible patients on stable doses of hydroxyurea for at least 90 days were allowed to continue hydroxyurea therapy throughout the study. The trial excluded patients who had a VOC event within 14 days prior to enrollment, received red blood cell (RBC) transfusions within 30 days of enrollment, and had renal insufficiency or uncontrolled liver disease.

All patients had HbSS or HbS/beta⁰-thalassemia genotype (100%) and most were receiving background hydroxyurea therapy (80%). The median age was 8 years (range: 4 to 15 years); 45 (80%) patients were 4 to <12 years. In this age group, mean baseline Hb was 8.6 g/dL (range: 6.1 to 10.5 g/dL).

Efficacy was based on Hb response rate, which is defined as a Hb increase of >1 g/dL from baseline to Week 24. Hb response rate for OXBRYTA in patients aged 4 to <12 years who took at least one dose of OXBRYTA was 36% (16/45) (95% CI: 21.6%, 49.5%).

16 HOW SUPPLIED/STORAGE AND HANDLING

The 500 mg tablet is film-coated, light yellow to yellow, oval shaped, biconvex, debossed with “GBT 500” on one side, and available in:

- Bottles of 90 tablets with one desiccant canister, a polyester coil and child-resistant closure: NDC 72786-101-01

The 300 mg tablet for oral suspension is light yellow to yellow, round shaped, debossed with “300 D” on one side, and available in:

- Bottles of 60 tablets for oral suspension with a polyester coil and child-resistant closure: NDC 72786-111-02
- Bottles of 90 tablets for oral suspension with a polyester coil and child-resistant closure: NDC 72786-111-03

Do not eat the desiccant canister or the polyester coil.

Store OXBRYTA at 20°C to 30°C (68°F to 86°F).

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Hypersensitivity Reactions

Advise patients that serious hypersensitivity reactions may occur, and to notify their healthcare providers if they develop generalized rash, urticaria, shortness of breath, facial swelling and eosinophilia [see [Warnings and Precautions \(5.1\)](#)].

Breastfeeding

Advise women not to breastfeed while they are on OXBRYTA therapy [see [Use in Specific Populations \(8.2\)](#)].

Dosage and Administration

To avoid a dosing error from using the wrong formulation of OXBRYTA, strongly advise patients and caregivers to visually inspect the tablets to verify the correct formulation each time the prescription is filled [see [Dosage and Administration \(2\)](#) and [How Supplied/Storage and Handling \(16\)](#)].

Advise patients to:

- Store OXBRYTA at 20°C to 30°C (68°F to 86°F).
- Continue taking OXBRYTA every day for as long as their physician tells them.
- Do not take St John’s wort while taking OXBRYTA.
- Swallow OXBRYTA tablets whole. Do not cut, crush, or chew the tablets.

- Do not swallow whole, cut, crush, or chew OXBRYTA tablets for oral suspension. Disperse OXBRYTA tablets for oral suspension in room temperature clear drink (such as drinking water, or clear soda) before administration. The amount of liquid needed to disperse the tablets for oral suspension will depend on the dose (number of tablets prescribed) [*see Dosage and Administration (2.7)*].
- Take OXBRYTA with or without food.
- If a dose is missed or not consumed entirely, resume dosing the following day [*see Dosage and Administration (2.7)*].

Manufactured for:

Global Blood Therapeutics, Inc.
South San Francisco, CA 94080 USA

OXBRYTA®

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OXBRYTA® (ox brye ta) (voxelotor) tablets	PATIENT INFORMATION	OXBRYTA® (ox brye ta) (voxelotor) tablets for oral suspension
<p>What is OXBRYTA? OXBRYTA is a prescription medicine used for the treatment of sickle cell disease in adults and children 4 years of age and older. It is not known if OXBRYTA is safe and effective in children with sickle cell disease below 4 years of age.</p>		
<p>Do not take OXBRYTA if you or your child have had an allergic reaction to voxelotor or any of the ingredients in OXBRYTA. See the end of this leaflet for a list of the ingredients in OXBRYTA.</p>		
<p>Before taking OXBRYTA, tell your healthcare provider about all of your medical conditions, including if you or your child:</p> <ul style="list-style-type: none"> • have liver problems • are pregnant or plan to become pregnant. It is not known if OXBRYTA can harm your unborn baby. • are breastfeeding or plan to breastfeed. It is not known if OXBRYTA can pass into your breastmilk and if it can harm your baby. Do not breastfeed during treatment with OXBRYTA and for at least 2 weeks after the last dose. <p>Tell your healthcare provider about all the medicines you or your child take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some medicines may affect how OXBRYTA works. OXBRYTA may also affect how other medicines work and may affect the results of certain blood tests. Keep a list of all your medicines and show it to your healthcare provider.</p>		
<p>How should I take OXBRYTA?</p> <ul style="list-style-type: none"> • Take OXBRYTA exactly as your healthcare provider tells you. • Do not change your dose or stop taking OXBRYTA unless your healthcare provider tells you to. Your healthcare provider may change your dose if needed. • Take your prescribed dose of OXBRYTA 1 time each day. • Take OXBRYTA with or without food. • OXBRYTA comes in two different dosage forms, OXBRYTA tablets and OXBRYTA tablets for oral suspension. Your healthcare provider will decide which dosage form you take based on your age, weight, and ability to swallow tablets. <ul style="list-style-type: none"> ○ If you take OXBRYTA tablets: Swallow each OXBRYTA tablet whole. Do not cut, crush, or chew the tablets. ○ If you take OXBRYTA tablets for oral suspension: See the detailed Instructions for Use on how to prepare and take your dose. You must mix the OXBRYTA tablets for oral suspension in room temperature clear drink, such as drinking water or clear soda, right before taking it. Do not swallow whole, cut, crush, or chew the tablets for oral suspension. • Check to make sure you receive the correct dosage form of OXBRYTA each time your prescription is filled to avoid taking the wrong medicine. • Your healthcare provider may also prescribe a medicine called hydroxyurea during treatment with OXBRYTA. • If you or your child miss a dose of OXBRYTA or if the entire dose is not taken, skip that dose and return to your normal dosing schedule the next day. 		
<p>What should I avoid while taking OXBRYTA? Do not take St. John's wort during treatment with OXBRYTA.</p>		
<p>What are the possible side effects of OXBRYTA? OXBRYTA can cause serious side effects, including:</p> <ul style="list-style-type: none"> • Serious allergic reactions. Tell your healthcare provider or get emergency medical help right away if you get: <ul style="list-style-type: none"> ○ rash ○ hives ○ shortness of breath (difficult breathing) ○ swelling of the face <p>The most common side effects of OXBRYTA include:</p> <ul style="list-style-type: none"> • headache • diarrhea • stomach-area (abdominal) pain • nausea • rash or hives • fever <p>The most common side effects of OXBRYTA in children ages 4 to less than 12 years of age include:</p> <ul style="list-style-type: none"> • fever • vomiting • rash • stomach-area (abdominal) pain • diarrhea • headache 		

These are not all the possible side effects of OXBRYTA.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Global Blood Therapeutics, Inc. at 1-833-428-4968 (1-833-GBT-4YOU).

How should I store OXBRYTA?

- Store OXBRYTA between 68°F to 86°F (20°C to 30°C).
- The OXBRYTA bottle comes with a child-resistant closure.
- The OXBRYTA bottle may contain a desiccant canister to help keep your medicine dry (protect it from moisture) and a polyester coil. Do not eat the desiccant or polyester coil.

Keep OXBRYTA and all medicines out of the reach of children.

General information about the safe and effective use of OXBRYTA.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use OXBRYTA for a condition for which it was not prescribed. Do not give OXBRYTA to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about OXBRYTA that is written for health professionals.

What are the ingredients of OXBRYTA?

Active Ingredient: voxelotor

Inactive Ingredients:

OXBRYTA tablets: colloidal silicon dioxide, croscarmellose sodium, magnesium stearate, microcrystalline cellulose, and sodium lauryl sulfate. The film coating contains: polyethylene glycol 3350, polyvinyl alcohol, talc, titanium dioxide, and yellow iron oxide.

OXBRYTA tablets for oral suspension: artificial grape flavor, colloidal silicon dioxide, croscarmellose sodium, iron oxide pigment, magnesium stearate, microcrystalline cellulose, and sucralose.

Manufactured for: Global Blood Therapeutics, Inc. South San Francisco, CA 94080, USA.

OXBRYTA®

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This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: 12/2021

INSTRUCTIONS FOR USE
OXBRYTA® [ox brye ta]
(voxelotor)
tablets for oral suspension
300 mg

This Instructions for Use contains information on how to take OXBRYTA tablets for oral suspension.

Read this Instructions for Use before you or your child start taking OXBRYTA tablets for oral suspension for the first time and each time you or your child get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your or your child's medical condition or treatment.

Talk to your healthcare provider or pharmacist if you have questions about how to take or give the prescribed dose of OXBRYTA tablets for oral suspension.

Important Information You Need to Know Before Taking OXBRYTA Tablets for Oral Suspension:

- Take OXBRYTA tablets for oral suspension exactly as your healthcare provider tells you.
- Your healthcare provider will tell you how many OXBRYTA tablets for oral suspension you will need for your or your child's dose.
- OXBRYTA comes in two different dosage forms. **Each time you receive your or your child's prescription, check the bottle to make sure that you received the prescribed dosage form of OXBRYTA tablets for oral suspension.** OXBRYTA tablets for oral suspension are light yellow to yellow, round shaped, and marked with "300 D" on one side. Contact your pharmacist or healthcare provider if you did not receive the correct dosage form.
- **Do not** swallow whole, cut, crush, or chew OXBRYTA tablets for oral suspension.
- You must first mix OXBRYTA tablets for oral suspension in room temperature clear drink, such as drinking water or clear soda, before swallowing.
- **If you or your child miss a dose of OXBRYTA tablets for oral suspension or if the entire dose is not taken,** skip that dose and return to the normal dosing schedule the next day.
- For more information about OXBRYTA tablets for oral suspension, see the Patient Information leaflet.

Gather supplies

You will need the following items to prepare the dose of OXBRYTA tablets for oral suspension (not included with OXBRYTA tablets for oral suspension):

- a teaspoon
- a small cup
- room temperature clear drink, such as drinking water or clear soda.

You will also need:

- the prescribed number of OXBRYTA tablets for oral suspension needed for your dose.



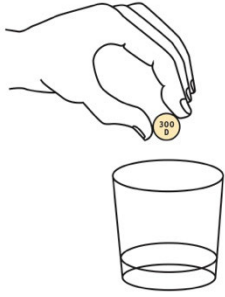
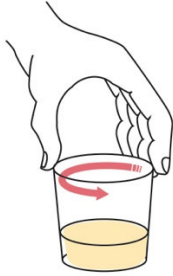
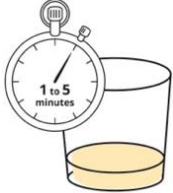


Preparing a dose of OXBRYTA tablets for oral suspension

Step 1. Wash and dry your hands well before preparing the dose.

Step 2. Pour room temperature clear drink into the cup. The table below shows the amount of clear drink needed for your prescribed dose. You may add more clear drink if needed to mix the tablets.

Number of OXBRYTA Tablets for Oral Suspension	Amount of Clear Drink
1	1 teaspoon (5 mL)
2	2 teaspoons (10 mL)
3	3 teaspoons (15 mL)
4	4 teaspoons (20 mL)
5	5 teaspoons (25 mL)
7	7 teaspoons (35 mL)
8	8 teaspoons (40 mL)



<p>Step 3. Add the prescribed number of OXBRYTA tablets for oral suspension into the cup.</p>	
<p>Step 4. Swirl the cup until the tablet(s) break apart (disperse) in the drink. Be careful not to spill the mixture.</p> <ul style="list-style-type: none"> • The tablet(s) will not completely dissolve. You will still see small tablet clumps in the mixture. • If you spill any medicine, clean up the spill. Throw away the rest of the prepared medicine and make a new dose. 	
<p>Step 5. Wait for 1 to 5 minutes.</p>	
<p>Giving the dose</p>	
<p>Step 6. Swirl the cup again. Take or give all of the prepared medicine right away.</p> <ul style="list-style-type: none"> • If giving to a child, make sure that your child is upright when drinking the medicine mixture. 	
<p>Step 7. Add 1 or 2 teaspoons of room temperature clear drink to the cup to make sure the full dose is taken. Swirl the cup until the remaining medicine is mixed and take or give it right away.</p> <ul style="list-style-type: none"> • Repeat this step until no more medicine is left in the cup. • After all the medicine is taken, you or your child may drink more water or any type of drink. 	
<p>Step 8. Wash the teaspoon and cup with warm soap and water.</p>	
<p>Storing OXBRYTA</p> <ul style="list-style-type: none"> • Store OXBRYTA between 68°F to 86°F (20°C to 30°C). • The OXBRYTA bottle comes with a child-resistant closure. • The OXBRYTA tablets for oral suspension bottle contains a polyester coil. Do not eat the polyester coil. <p>Keep OXBRYTA and all medicines out of the reach of children.</p>	

Disposing of OXBRYTA

When all the tablets in the bottle have been taken, throw away the bottle. Safely dispose of (throw away) OXBRYTA that is out of date or no longer needed using your local household waste guidelines.

Manufactured for: Global Blood Therapeutics, Inc. South San Francisco, CA 94080, USA.

OXBRYTA®

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For more information, call 1-833-428-4968 (1-833-GBT-4YOU) or go to www.OXBRYTA.com.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Issued: 12/2021

NDC 72786-111-02

 only

Oxbryta[®]

(voxelotor)

Tablets for Oral Suspension

300 mg

60 tablets

Each tablet contains 300 mg of voxelotor.

Tablets **MUST** be dispersed in water or clear liquid prior to ingestion. **DO NOT CHEW OR SWALLOW WHOLE.**

Recommended Dosage: See prescribing information.

Store at 20°C to 30°C (68°F to 86°F)

Do not use if safety seal under cap is broken or missing.

Keep out of the reach of children

Manufactured for:
Global Blood Therapeutics, Inc.
South San Francisco, CA 94080 USA



672497-01

GT N 0037278611028

LOT 1234567
EXP 1999-12-31
SN 1234567890



NDC 72786-111-03

Rx only

Oxbryta[®]

(voxelotor)

Tablets for Oral Suspension

300 mg

90 tablets

Each tablet contains 300 mg of voxelotor.

Tablets MUST be dispersed in water or clear liquid prior to ingestion. DO NOT CHEW OR SWALLOW WHOLE.

Recommended Dosage: See prescribing information.

Store at 20°C to 30°C (68°F to 86°F)

Do not use if safety seal under cap is broken or missing.

Keep out of the reach of children

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South San Francisco, CA 94080 USA



672496-01

GTIN 0037278611035

LOT 1234567
EXP 1999-12-31
SN 1234567890



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/s/

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