

Evaluation of a new tablet formulation of deferasirox to reduce chronic iron overload after long-term blood transfusions

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Abstract: Transfusion-dependent anemia is a common feature in a wide array of hematological disorders, including thalassemia, sickle cell disease, aplastic anemia, myelofibrosis, and myelodysplastic syndromes. In the absence of a physiological mechanism to excrete excess iron, chronic transfusions ultimately cause iron overload. Without correction, iron overload can lead to end-organ damage, resulting in cardiac, hepatic, and endocrine dysfunction/failure. Iron chelating agents are utilized to reduce iron overload, as they form a complex with iron, leading to its clearance. Iron chelation has been proven to decrease organ dysfunction and improve survival in certain transfusion-dependent anemias, such as β -thalassemia. Several chelating agents have been approved by the United States Food and Drug Administration for the treatment of iron overload, including deferoxamine, deferiprone, and deferasirox. A variety of factors have to be considered when choosing an iron chelator, including dosing schedule, route of administration, tolerability, and side effect profile. Deferasirox is an orally administered iron chelator with proven efficacy and safety in multiple hematological disorders. There are two formulations of deferasirox, a tablet for suspension, and a new tablet form. This paper is intended to provide an overview of iron overload, with a focus on deferasirox, and its recently approved formulation Jadenu® for the reduction of transfusional iron overload in hematological disorders.

Keywords: iron chelation therapy, transfusional iron overload, deferasirox

Introduction to iron overload

Iron homeostasis is a complex system that balances both the absorption of intestinal iron and release of stored iron, with the body's iron requirements. There are several molecules, such as hepcidin, ferritin, and ferroportin that provide tight regulation of this process, and contribute to iron homeostasis. Under normal circumstances, almost all absorbed iron is rapidly bound to transferrin (TF), an abundant, high-affinity iron-binding protein. Iron occupies approximately 30% of TF iron-binding sites. In heavily transfused patients, non-TF bound iron begins to accumulate. Labile plasma iron (LPI), a directly chelatable form of non-TF bound iron, is readily taken up by cells, leading to expansion of the cellular iron pool and generation of reactive oxygen species, resulting in cellular dysfunction and death.^{1,2}

As there is no regulated mechanism for the excretion of excess iron, patients who require frequent blood transfusions inexorably develop chronic iron overload. Each unit of transfused red blood cells introduces 200–250 mg of elemental iron, with iron overload occurring after approximately ten to 20 transfusions.³ Transfusional iron overload occurs in patients with a wide array of hematological disorders including thalassemia, sickle cell disease, aplastic anemia, myelofibrosis, and myelodysplastic

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syndromes (MDS). In the United States, an estimated 25,000 patients are transfusion dependent due to sickle cell disease, MDS, refractory anemias, and thalassemia.⁴ While phlebotomy represents a reasonable chelation method in non-anemic patients with iron overload, it is not feasible in transfusion-dependent patients; in which case, iron chelators represent the treatment of choice for the management of iron overload. It should be noted that ineffective erythropoiesis, noted in patients with non-transfusion-dependent thalassemia (NTDT) syndromes, can also result in clinically relevant iron overload, despite lack of regular blood transfusions primarily due to increased gastrointestinal (GI) absorption.⁵

Toxicity from iron overload most commonly damages the liver, heart, and endocrine system and can adversely affect survival. For example, in thalassemia without iron chelation, death usually occurs from cardiac failure or arrhythmia at an early age. The median age of death before the widespread use of chelating agents in thalassemia was 17, with observational studies showing improvement in survival rates since the introduction of chelating agents.^{6,7} Review of several decades of registry data for β -thalassemia patients in the United Kingdom indicates that survival past the age of 24 is attributable to the use of chelating agents.⁷ For other transfusion-dependent anemias, such as sickle-cell anemia and MDS, long-term efficacy and survival data of chelation therapy is lacking.⁸

Standard treatment options for iron overload

Iron chelation therapy is intended to reduce iron overload by forming a complex with iron, thereby promoting its excretion. Before initiating treatment with a chelating agent, the degree of iron overload must be quantified. Serum ferritin and TF saturation have traditionally been utilized to diagnose iron overload, determine the need to initiate chelation therapy, and assess its efficacy.

Serum ferritin measurement represents an easy and widely available method to assess iron overload as well as a screening tool. However, there are limitations of utilizing ferritin as a sole measure as it can be elevated in the absence of iron overload.

This can occur in autoimmune disorders, inflammatory states, malignancy, chronic renal insufficiency, metabolic syndromes, and hepatopathies.⁹ Additionally, ferritin does not always correlate with other, more accurate measures of iron burden, such as liver iron concentration (LIC).¹⁰

Beyond serum laboratory tests, LIC has been shown to accurately assess total body iron stores.¹¹ LIC can be determined directly with a liver biopsy. However, noninvasive measurement with magnetic resonance imaging (MRI) has been shown to have a high sensitivity and specificity for measuring LIC.¹² Therefore, MRI frequently supplants the use of liver biopsies.

Due to the risk of cardiac toxicity in iron overload, monitoring cardiac iron stores is important. Similar to liver monitoring, cardiac T2* MRI is validated as a true measure of cardiac iron.¹³ Cardiac T2* is a relaxation parameter, with <20 ms indicating iron overload and predicting a higher risk for the development of heart failure and arrhythmias.¹⁴ It is important to note that cardiac T2* and liver MRI do not always correlate.¹⁵ Beyond the initial determination of iron overload, liver and cardiac MRI should be used serially to determine the efficacy of chelation therapy, though there is no universally accepted interval for repeat monitoring.

The indication and timing of initiation of iron chelation therapy for transfusion-dependent anemia vary according to disease states. In some instances, triggers for initiation of iron chelation therapy in transfusion-dependent anemia patients are mostly derived from consensus guidelines as well as expert opinion (Table 1).

There are three iron chelators currently available for use in the United States, deferoxamine, deferiprone, and deferasirox, each with a different route of administration, dosing regimen, and side effect profile (Table 2). In the United States deferasirox is the most frequently utilized iron chelator due to ease of oral administration.⁴

Deferoxamine became the first iron chelator to be approved by the United States Food and Drug Administration (FDA) in 1968 for use in iron overload, with subcutaneous, muscular or intravenous routes of administration. Due to low

Table 1 Indications for chelation by disease^a

Disease	
Low-risk/Intermediate-I MDS	>20 pRBC transfusions, serum ferritin >1,000–2,500 $\mu\text{g/L}$, and life expectancy >1 year ^{45,46}
Sickle cell anemia	>120 cc of pRBC/kg plus serum ferritin >1,000 $\mu\text{g/L}$ or liver iron >7 mg Fe/g dw ⁴⁷
Beta-thalassemia	>2–3 years of transfusions and LIC >5 mg Fe/g dw ⁴⁸
Diamond-Blackfan anemia	After >15 pRBC transfusions or >2 years, with an aim to keep the ferritin level between 1,000–1,500 $\mu\text{g/L}$ and LIC <7 mg Fe/g dw ⁴⁹
Non-transfusion-dependent thalassemia	LIC >5 mg Fe/g dw and serum ferritin >300 $\mu\text{g/L}$

Note: ^aIndications as determined by consensus statement or expert opinion.
Abbreviations: MDS, myelodysplastic syndromes; pRBC, packed red blood cells; LIC, liver iron concentration; dw, dry weight.

Table 2 Iron chelator properties

	Deferoxamine	Deferiprone	Deferasirox (Exjade®)	Deferasirox (Jadenu®)
FDA approval	1968	2011	2005	2015
Administration	SQ or IV	Oral tablets	Oral tablets dissolved in liquid	Oral tablets
Dosing frequency	daily for 5–7 days/week (if SQ)	Three times a day	Once daily	Once daily
Usual initial dose	SQ: daily dose of 1,000–2,000 mg	25 mg/kg (for a total daily	Transfusional iron overload:	Transfusional iron overload:
in chronic iron	or 20–40 mg/kg/day ^b	dose of 75 mg/kg)	20–40 mg/kg	14 mg/kg
overload ^a	IV: 40–50 mg/kg/day ^c		NTDT: 10–20 mg/kg	NTDT: 7 mg/kg
Administration	N/A	May be taken with or	Empty stomach	Empty stomach or with a
with food		without food		low-fat meal
Common adverse	Infusion site reactions,	Gastrointestinal disturbances,	Gastrointestinal disturbances,	Gastrointestinal disturbances,
effects	gastrointestinal disturbances,	LFT abnormalities, arthralgia,	renal insufficiency, rash, LFT	renal insufficiency, rash, LFT
	renal insufficiency	neutropenia	abnormalities	abnormalities

Notes: ^aDosing as indicated for adult patients; ^badministered over 8 to 24 hours; ^cadministered over 8 to 12 hours for 5 to 7 days per week.

Abbreviations: SQ, subcutaneous; IV, intravenous; NTDT, non-transfusion-dependent thalassemia; LFTs, liver function tests; FDA, United States Food and Drug Administration; N/A, not applicable.

oral bioavailability and short half-life of less than 1 hour, it is not suitable for oral administration and is usually given over 8 to 12 hours a day, 5 to 7 days a week.¹⁶ Common adverse effects are discomfort at the injection site and GI disturbances. Visual and auditory toxicity have been reported, but can be minimized by avoiding higher doses and over-chelation.¹⁷ Increases in serum creatinine (possibly dose-related), acute renal failure and renal tubular disorders, associated with the administration of deferoxamine, have been reported in post-marketing surveillance.¹⁸ All patients should be monitored with periodic audiology and ophthalmology exams as well as kidney and liver function tests.

Though originally synthesized in 1984, deferiprone is an oral agent that was only approved by the FDA in 2011. This is in part due to initial concerns regarding its efficacy.^{19,20} Nonetheless, a review of 17 clinical trials indicates that deferiprone results in a significant reduction of iron stores in transfusion-dependent patients.²¹ The same review noted that adverse events are more common in deferiprone compared to deferoxamine.²¹ The most common side effects include elevation in hepatic enzymes, GI discomfort, and arthralgia. Agranulocytosis is an uncommon side effect, occurring in 1%–3% of patients, with the potential risk of sepsis.^{22,23} For most patients, agranulocytosis resolves after stopping the medication.²⁴ All patients should be monitored with complete blood counts, liver function tests, and serum zinc levels.

Deferasirox is an oral iron chelator with a long half-life that allows for once-daily dosing. Two deferasirox formulations are available, the original tablet for oral suspension (Exjade®; Novartis International AG, Basel, Switzerland) and the newly approved film-coated tablet (Jadenu®). The accelerated approval of the new formulation in 2015 was based on results of trials conducted to evaluate the safety and efficacy of the original deferasirox formulation (Exjade®).

Exjade® (deferasirox) was initially approved by the FDA in 2005, for the treatment of chronic iron overload due to blood transfusions in patients 2 years of age and older. Patients must have evidence of iron overload defined as transfusion of ≥ 100 mL/kg of packed red blood cells and serum ferritin consistently $> 1,000$ μ g/L. The approval of deferasirox has recently been expanded to include the management of chronic iron overload, defined as an LIC of 5 mg Fe/g dry weight (dw), and serum ferritin > 300 μ g/L, in patients with NTDT syndromes in patients 10 years of age and older.

The following represents a summary of the clinical trials conducted in various patient populations to evaluate the safety and efficacy of deferasirox original formulation, Exjade®, in the management of patients with iron overload either due to transfusions or in NTDT.

The pivotal non-inferiority trial that led to the FDA approval of deferasirox was a Phase III randomized study comparing deferasirox to deferoxamine over 1 year, in patients 2 years and older with transfusion-dependent β -thalassemia, and evidence of iron overload as defined by an LIC of > 2 mg Fe/g dw. LIC was determined by either liver biopsy, or a special non-invasive technique, termed superconducting quantum interference device.²⁵ Five-hundred and eighty-six patients were randomized at 1:1 ratio to either deferasirox or deferoxamine, with most completing 1 year of therapy in the study. This trial did not meet its primary efficacy end-point of maintenance or reduction of LIC when compared to deferoxamine, which was attributed to a relative under-dosing of deferasirox. Nonetheless, non-inferiority was demonstrated in a subgroup of patients receiving higher doses of either agent (deferasirox 20 or 30 mg/kg and deferoxamine doses of > 35 mg/kg) due to higher LIC at baseline. Pooled data from clinical trials indicated that the response to deferasirox was dose-dependent and efficacy was influenced

by rate of transfusional iron intake.^{26–28} Future clinical trials used periodic dose adjustments to account for differences in transfusion requirements of patients, as it varies widely in patients with sickle cell disease and MDS.^{29,30}

The EPIC study was the largest ever investigation conducted for an iron chelator, enrolling 1,744 patients to evaluate whether fixed starting doses of deferasirox, based on transfusional iron intake, with dose titration guided by serum ferritin trends and safety markers, provided clinically acceptable chelation in patients (aged ≥ 2 years) with transfusional hemosiderosis from various types of anemia. Though the largest subset of patients had thalassemia, the trial also included patients with MDS, sickle cell disease, aplastic anemia, and other rare anemias. The recommended initial dose was 20 mg/kg/day for patients receiving 2–4 packed red blood cell units/month and 10 or 30 mg/kg/day was recommended for patients receiving less or more frequent transfusions, respectively. Dose adjustments were based on 3-month serum ferritin trends and continuous assessment of safety markers, including changes in serum creatinine, urinary protein:urinary creatinine ratio, liver function tests, development of skin rash, auditory and ocular disturbances, cytopenias, and hypersensitivity reactions. This trial reached its primary end-point of overall reduction of serum ferritin after 52 weeks of therapy compared with baseline, (-264 ng/mL; $P < 0.0001$). These data confirmed response to chelation therapy across various anemias, and feasibility of dose titration as guided by trends in serum ferritin and safety markers as mentioned. The most common ($> 5\%$) adverse events in that trial were GI disturbances (28%) and skin rash (10%).³⁰

Within the EPIC trial, a smaller subset of patients (N: 114) with normal left ventricular ejection fraction and cardiac iron overload, defined as myocardial T2* of < 20 ms and > 5 ms, were prospectively followed while on deferasirox.³¹ Myocardial T2 was significantly improved (from 12 ms to 17.1 ms), corresponding to a decrease in cardiac iron concentration.³²

The CORDELIA study was a prospective, randomized comparison of deferasirox (target dose 40 mg/kg per day) vs subcutaneous deferoxamine (50–60 mg/kg per day for 5–7 days/week) for the removal of myocardial iron in 197 β -thalassemia major patients who had myocardial siderosis (T2* 6–20 ms) without signs of cardiac dysfunction. The study demonstrated that deferasirox was non-inferior to deferoxamine in reducing cardiac iron as assessed by T2*.³³

A reported subgroup analysis from the prospective, 1-year, multicenter ESCALATOR study, on the effect of deferasirox

on LPI levels in patients with β -thalassemia, demonstrated that once-daily dosing with deferasirox ≥ 20 mg/kg/day resulted in sustained reduction in LPI levels in heavily iron-overloaded patients, suggesting 24-hour protection from LPI. It was hypothesized that deferasirox may therefore reduce unregulated tissue iron loading and prevent further end-organ damage.³⁴ Overall, deferasirox has been extensively studied and found to improve hepatic pathology and decrease cardiac iron.^{32,33,35}

The FDA approval of deferasirox was recently expanded to include patients with NTDT based on the results of the THALASSA trial. The study was a 1-year, randomized, double-blind, placebo-controlled study conducted to assess the efficacy and safety of deferasirox in iron-overloaded NTDT patients. The primary efficacy variable was the absolute change in LIC from baseline to week 52. A total of 166 patients were randomized in a 2:1:2:1 ratio to starting doses of 5 or 10 mg/kg/day of deferasirox or placebo. Dose adjustment recommendations were also provided based on continuous safety assessments. If serum ferritin was < 100 μ g/L, or LIC was < 3 mg Fe/g dw at any visit, treatment was to be suspended until LIC increased to ≥ 5 mg Fe/g dw and serum ferritin to > 300 μ g/L. At 1 year, the LIC and serum ferritin decreased significantly compared to placebo ($P < 0.001$). In patients receiving placebo, both LIC and serum ferritin increased from baseline. The most common drug-related adverse events were nausea ($n=11$; 6.6%), rash ($n=8$; 4.8%), and diarrhea ($n=6$; 3.6%).³⁶

Pharmacology and pharmacokinetics of the new tablet formulation of deferasirox

Deferasirox is a tridentate iron chelator with high affinity and high selectivity for ferric iron. Deferasirox binds ferric iron in a 2:1 (deferasirox:iron) ratio. It is well absorbed from the GI tract. Once absorbed and bound to iron, it is eliminated predominantly by the hepatobiliary system and excreted via the fecal route, with a small percentage excreted in the urine.^{37,38}

Deferasirox as a tablet for oral suspension (Exjade®) is taken once daily but must be mixed with water, orange juice, or apple juice until a fine suspension is obtained. Any residual medication has to be resuspended in a small volume of liquid and taken. This leads to a lengthy mixing process and the theoretical risk of patients not completely taking the intended dose. Additionally, one third of patients find deferasirox as a tablet for oral suspension unpalatable.³⁹ The new tablet formulation (Jadenu®) was developed in an attempt to overcome these tolerability issues, and is the only

once-daily oral iron chelator that can be swallowed whole. It was approved by the FDA on March 31, 2015.

Deferasirox tablets (Jadenu®) contain the same active ingredient as deferasirox tablets for oral suspension (Exjade®). In a single-dose healthy volunteer study³⁷ (ICL670F2102) the new formulation was shown to have comparable PK to the dispersible tablet formulation. However, peak serum concentrations (C_{max}) were approximately 30% higher. The new formulation is also 36% more bioavailable than the original formulation, Exjade®.³⁷ Therefore, when converting a patient from deferasirox tablets for oral suspension (Exjade®) to deferasirox tablets (Jadenu®), the dosage should be decreased by 30%. For instance, a patient who is receiving Exjade at a dose of 30 mg/kg/day should be given Jadenu at 21 mg/kg/day (Table 3).

In addition, a food effect study³⁷ (ICL670F2103) indicated that the new deferasirox formulation can be taken with a light meal.³⁷ Since the absorption of Jadenu is increased when taken with a high fat meal, with an 18% increase in the area under the curve,³⁷ patients should be informed of this property, and educated as to food choices when initiating therapy.

Treatment with deferasirox tablets (Jadenu®) should be initiated at 14 mg/kg/day and titrated up by 3.5–7 mg/kg/day.³⁷ Dose adjustment should be made every 3 to 6 months based on iron stores assessments, such as serum ferritin or LIC.³⁷ The maximum dosage is 28 mg/kg/day. It is available as 90, 180, and 360 mg tablets. It is recommended to hold chelation therapy in patients with transfusional iron overload of ferritin <500 µg/L. In patients with NTDT, chelation therapy should be held if LIC is <3 mg Fe/g dw or if ferritin is <300 µg/L.³⁷

Efficacy, safety, and tolerability of the new formulation

To date, the new formulation of deferasirox has only been evaluated in pharmacokinetic studies in healthy volunteers. No clinical data are available yet in patients taking this formulation; however, a Phase 2 randomized, open-label, multicenter, two-arm study comparing the two formulations

of deferasirox in patients with transfusion-dependent thalassemia or low risk MDS has met its accrual goal. The study's primary end-point is safety, with several secondary end-points including comparative assessment of pharmacokinetics, GI side effects, palatability, and compliance. Until the results of this trial are available, the side effect profile of deferasirox tablets (Jadenu®) is considered similar to deferasirox tablets for oral suspension (Exjade®), since it contains the same active ingredient.

The most common side effect with deferasirox tablets for oral suspension is GI discomfort, with 10%–33% of patients experiencing abdominal pain, diarrhea, nausea, and/or vomiting.^{1,40} Though most patients are able to tolerate this side effect, 7% of patients cite GI side effects as a reason for stopping deferasirox.¹ Treatment algorithms developed for the management of GI side effects recommend a combination of pre-prandial evening dosing, starting at a low dose and titrating up as tolerated, and loperamide use as needed for diarrhea.⁴¹ As deferasirox tablets (Jadenu®) lack lactose and sodium sulfate, both found in the original formulation and possibly implicated in GI side effects, it is hypothesized it will have improved tolerability.⁴¹ Confirmation of this hypothesis is pending the results of the prospective trial comparing the two formulations of deferasirox.

GI hemorrhage has also been reported in patients with advanced hematological malignancies and thrombocytopenia with the original formulation of deferasirox tablets for oral suspension. Though the exact risk is unknown with the new formulation, the same black box warning applies. Therefore, patients should be monitored for symptoms and signs of GI bleeding. Deferasirox is contraindicated in patients with platelet count <50 th/µL.

As deferasirox can cause renal toxicity and proteinuria, creatinine should be measured twice prior to the initiation of therapy and monthly thereafter (Table 4). Patients at an increased risk of complications for renal impairment, such as elderly patients or those taking other nephrotoxic medications, are at risk of acute renal failure with deferasirox and should be monitored with weekly serum creatinine.³⁷ For patients with a creatinine clearance of 40–60 mL/min, the starting dose is reduced by 50%. Its use is not advised in patients with creatinine clearance <40 mL/min. If a patient develops an elevation in creatinine during treatment >33% off baseline that is sustained for 1 week, the dose should be decreased by 7 mg/kg/day for deferasirox tablets.³⁷ All patients should have the medication held if creatinine clearance is <40 mL/min.

Table 3 Dosage conversion to the new formulation of deferasirox

Deferasirox tablets for oral suspension (Exjade®)	Deferasirox tablets (Jadenu®)
10 mg/kg/day	7 mg/kg/day
20 mg/kg/day ^a	14 mg/kg/day ^a
30 mg/kg/day	21 mg/kg/day
40 mg/kg/day	28 mg/kg/day

Note: ^aRecommended starting dose.

Table 4 Efficacy and toxicity monitoring for deferasirox tablets (Jadenu®)

	Baseline	During treatment
Serum creatinine	x	Monthly ^b
LFT ^a	x	Twice weekly for first month, then monthly
Auditory and ophthalmic testing	x	Annually
Serum ferritin	x	Monthly. Consider interrupting treatment for serum ferritin <500 µg/L in transfusional iron overload or serum ferritin <300 µg/L in NTDT

Notes: ^aLFT to include serum transaminase and bilirubin; ^bfor high-risk patients (eg, elderly, pre-existing renal disease, multiple comorbidities) monitor creatinine weekly for first month, then monthly. "x" represents a check-mark.

Abbreviations: NTDT, non-transfusion-dependent thalassemia; LFT, liver function test.

Liver function should be measured at baseline, then every 2 weeks, then at least monthly thereafter (Table 4). In general, the elderly are at higher risk of complications with all formulations of deferasirox and they should be monitored more frequently for toxicity.³⁷

The dose adjustment in liver disease depends on the degree of liver dysfunction. While Child-Pugh score A requires no dose reduction, moderate (Child-Pugh B) hepatic impairment requires a 50% dose reduction.³⁷ It should not be used in Child-Pugh C.

Similar to deferoxamine, neurosensory deafness and hypoacusis are reported. All patients should be monitored with periodic audiology and ophthalmology exams.

There are several drug interactions with deferasirox tablets (Jadenu®). Bile acid sequestrates and uridine 5'-diphospho-glucuronosyltransferase inducers, such as phenytoin or ritonavir, have the potential to lower the concentration of deferasirox. Aluminum-containing antacid preparations should not be administered with deferasirox tablets (Jadenu®). Though their concomitant use has not been formally studied, the rationale for avoiding this medication is the theoretical risk of aluminum binding to the chelator in the GI tract. Drugs metabolized by CYP3A4 may be made less effective by deferasirox. Additionally, due to the known risk of GI hemorrhage, medications that can cause ulcers or those with a hemorrhagic potential should be avoided.³⁷

Patient focused perspectives

Due to the chronic nature of chelation therapy and the adverse consequences of iron overload, patient adherence to therapy is an important issue. Patients taking deferasirox tablets for oral suspension (Exjade®) reported superior satisfaction scores compared to those reported by patients taking deferoxamine.⁴² Patient satisfaction rates for deferasirox

tablets for oral suspension (Exjade®) were reported as high as 90%.⁴³ Nonetheless, palatability studies show 37% of patients disliked deferasirox tablets for oral suspension (Exjade®).³⁹ Self-reported adherence to the medication was reported at 67%–85%.⁴⁴ Patients prefer to take deferasirox with food.³⁹ As the earlier discussed pharmacokinetic data allow the new formulation to be taken with a light, low-fat meal, it is hoped this will improve patient satisfaction, and thereby adherence. The previously mentioned Phase 2 clinical trial is prospectively comparing the two formulations of deferasirox and will compare efficacy, and further address the question of patient satisfaction, palatability, and adherence.

Conclusion

Once the need for iron chelators is established in patients with transfusional iron overload, the ideal agent should be determined by the practitioner and patient. Deferasirox is a frequent choice due to ease of once-daily oral administration, but adherence may be hampered by palatability of the tablet for oral suspension. The new formulation of deferasirox tablets has similar pharmacological parameters, but hopes to address the prior issue of palatability. An additional advantage is that it can be taken with food. Ongoing clinical trials will address whether this new formulation improves patient satisfaction and compliance, without trade-offs in adverse events or safety.

Disclosure

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