

UPC
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WARNINGS

INCRELEX™ contains benzyl alcohol as a preservative. Benzyl alcohol as a preservative has been associated with neurologic toxicity in neonates.

If sensitivity to INCRELEX™ occurs, treatment should be discontinued.

PRECAUTIONS

General. Treatment with INCRELEX™ should be directed by physicians who are experienced in the diagnosis and management of patients with growth disorders.

Information for Patients. Patients and/or their parents should be instructed in the safe administration of INCRELEX™. INCRELEX™ should be given shortly before or after (20 minutes on either side of) a meal or snack. **INCRELEX™ should not be administered when the meal or snack is omitted.** The dose of INCRELEX™ should never be increased to make up for one or more omitted doses. INCRELEX™ therapy should be initiated at a low dose and the dose should be increased only if no hypoglycemia episodes have occurred after at least 7 days of dosing. If severe hypoglycemia or persistent hypoglycemia occurs on treatment despite adequate food intake, INCRELEX™ dose reduction should be considered. Providers should educate patients and caregivers on how to recognize the signs and symptoms of hypoglycemia.

Patients and/or parents should be thoroughly instructed in the importance of proper needle disposal. A puncture-resistant container should be used for the disposal of used needles and/or syringes (consistent with applicable state requirements). Needles and syringes must not be reused.

INCRELEX™ has not been studied in children less than 2 years of age or in adults.

INCRELEX™ should be administered shortly before or after a meal or snack, because it has insulin-like hypoglycemic effects. Special attention should be paid to small children because their oral intake may not be consistent. Patients should avoid engaging in any high-risk activities (e.g., driving, etc.) within 2-3 hours after dosing, particularly at the initiation of INCRELEX™ treatment, until a well-tolerated dose of INCRELEX™ has been established.

Lymphoid tissue (e.g., tonsillar) hypertrophy associated with complications, such as snoring, sleep apnea, and chronic middle-ear effusions have been reported with the use of INCRELEX™. Patients should have periodic examinations to rule out such potential complications and receive appropriate treatment if necessary.

Intracranial hypertension (IH) with papilledema, visual changes, headache, nausea and/or vomiting have been reported in patients treated with INCRELEX™, as they have been reported with therapeutic growth hormone administration. IH-associated signs and symptoms resolved after interruption of dosing. Fundoscopic examination is recommended at the initiation and periodically during the course of INCRELEX™ therapy.

Slipped capital femoral epiphysis and progression of scoliosis can occur in patients who experience rapid growth. These conditions and other symptoms and signs known to be associated with GH treatment in general should be monitored during INCRELEX™ treatment.

As with any exogenous protein administration, local or systemic allergic reactions may occur. Parents and patients should be informed that such reactions are possible and that if an allergic reaction occurs, treatment should be interrupted and prompt medical attention should be sought.

Carcinogenesis, mutagenesis, impairment of fertility. INCRELEX™ was administered subcutaneously to Sprague Dawley rats at doses of 0, 0.25, 1, 4, and 10 mg/kg/day for up to 2 years. An increased incidence of adrenal medullary hyperplasia and pheochromocytoma was observed in male rats at doses of 1 mg/kg/day and above (≥ 1 times the clinical exposure with the maximum recommended human dose [MRHD] based on AUC) and female rats at all dose levels (≥ 0.3 times the clinical exposure with the MRHD based on AUC). An increased incidence of keratoacanthoma in the skin was observed in male rats at doses of 4 and 10 mg/kg/day (≥ 4 times the MRHD) and in female rats treated with 10 mg/kg/day (7 times the MRHD based on AUC). An increased incidence of mammary gland carcinoma in both male and female rats was observed in animals treated with 10 mg/kg/day (7 times the MRHD based on AUC). Based on excess mortality secondary to IGF-1 induced hypoglycemia, these skin and mammary tumor findings were only observed at doses that exceeded the maximum tolerated dose (MTD).

Mutagenesis: INCRELEX™ was not clastogenic in the in vitro chromosome aberration assay and the in vivo mouse micronucleus assay.

Impairment of fertility: INCRELEX™ was administered intravenously to rats at doses of 0.25, 1, and 4 mg/day to conduct the fertility study. No effects on fertility were observed in male or female rats treated with doses up to 4 mg/kg/day (4 times the clinical exposure with the MRHD based on AUC.)

Pregnancy Category C. Embryo-fetal toxicity studies were conducted in Sprague Dawley rats with doses of 1, 4, and 16 mg/kg/day, and in New Zealand White rabbits with doses of 0.125, 0.5, and 2 mg/kg/day administered intravenously. No embryo-fetal developmental abnormalities were observed in rats with doses up to 16 mg/kg/day (20 times the MRHD based on body surface area [BSA] comparison). In the rabbit study, the NOAEL for maternal toxicity was 2 mg/kg (8

times the MRHD based on BSA) and the NOAEL for fetal toxicity was 0.5 mg/kg (2 times the MRHD based on BSA). INCRELEX™ displayed no teratogenicity at doses up to 2 mg/kg (8 times the MRHD based on BSA).

The effects of INCRELEX™ on an unborn child have not been studied. Therefore, there is insufficient medical information to determine whether there are significant risks to a fetus.

Nursing Mothers. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when INCRELEX™ is administered to a nursing woman.

Geriatric Use. The safety and effectiveness of INCRELEX™ in patients aged 65 and over has not been evaluated in clinical studies.

ADVERSE REACTIONS

As with all protein pharmaceuticals, some patients may develop antibodies to INCRELEX™. Anti-IGF-1 antibodies were present at one or more of the periodic assessments in 14 of 23 children with Primary IGFD treated for 2 years. However, no clinical consequences of these antibodies were observed (e.g., allergic reactions or attenuation of growth).

In clinical studies of 71 subjects with Primary IGFD treated for a mean duration of 3.9 years and representing 274 subject-years, no subjects withdrew from any clinical study because of adverse events. Adverse events considered related to INCRELEX™ treatment that occurred in 5% or more of these study participants are listed below by organ class.

Metabolism and Nutrition Disorders: hypoglycemia

General Disorders and Administrative Site Conditions: lipohypertrophy, bruising

Infections and Infestations: otitis media, serous otitis media

Respiratory, Thoracic and Mediastinal Disorders: snoring, tonsillar hypertrophy

Nervous System Disorders: headache, dizziness, convulsions

Gastrointestinal Disorders: vomiting

Ear and Labyrinth Disorders: hypoacusis, fluid in middle ear, ear pain, abnormal tympanometry

Cardiac Disorders: cardiac murmur

Musculoskeletal and Connective Tissue Disorders: arthralgia, pain in extremity

Blood and Lymphatic System Disorders: thymus hypertrophy

Surgical and Medical Procedures: ear tube insertion

Hypoglycemia was reported by 30 subjects (42%) at least once during their course of therapy. Most cases of hypoglycemia were mild or moderate in severity. Five subjects had severe hypoglycemia (requiring assistance and treatment) on one or more occasion and 4 subjects experienced hypoglycemic seizures/loss of consciousness on one or more occasion. Of the 30 subjects reporting hypoglycemia, 14 (47%) had a history of hypoglycemia prior to treatment. The frequency of hypoglycemia was highest in the first month of treatment, and episodes were more frequent in younger children. Symptomatic hypoglycemia was generally avoided when a meal or snack was consumed either shortly (i.e., 20 minutes) before or after the administration of INCRELEX™.

Tonsillar hypertrophy was noted in 11 (15%) subjects in the first 1 to 2 years of therapy with lesser tonsillar growth in subsequent years. Tonsillectomy or tonsillectomy/adenoidectomy was performed in 7 subjects; 3 of these had obstructive sleep apnea, which resolved after the procedure in all 3 cases.

Intracranial hypertension occurred in three subjects. In two subjects the events resolved without interruption of INCRELEX™ treatment. INCRELEX™ treatment was discontinued in the third subject and resumed later at a lower dose without recurrence.

Mild elevations in the serum AST and LDH were found in a significant proportion of patients before and during treatment and no rise in levels of these serum enzymes led to treatment discontinuation. ALT elevations were occasionally noted during treatment. Renal and splenic lengths (measured by ultrasound) increased rapidly on INCRELEX™ treatment during the first years of therapy. This lengthening slowed down subsequently; though in some patients, renal and/or splenic length reached or surpassed the 95th percentile. Renal function (as defined by serum creatinine and calculated creatinine clearance) was normal in all patients, irrespective of renal growth. Elevations in cholesterol and triglycerides to above the upper limit of normal were observed before and during treatment. Echocardiographic evidence of cardiomegaly/valvulopathy was observed in a few individuals without associated clinical symptoms. Because of underlying disease and the lack of control group, the relation of the cardiac changes to drug treatment cannot be assessed.

Thickening of the soft tissues of the face was observed in several patients and should be monitored during INCRELEX™ treatment.

OVERDOSAGE

There is no clinical experience with overdosage of INCRELEX™. Based on known pharmacological effects, acute overdosage would be predicted to lead to hypoglycemia. Long-term overdosage may result in signs and symptoms of acromegaly. Treatment of acute overdose of INCRELEX™ should be directed at reversing hypoglycemia. Oral glucose or food should be consumed. If the overdose results in loss of consciousness, intravenous glucose or parenteral glucagon may be required to reverse the hypoglycemic effects.

DOSAGE AND ADMINISTRATION

Preprandial glucose monitoring should be considered at treatment initiation and until a well tolerated dose is established. If frequent symptoms of hypoglycemia or severe hypoglycemia occur, preprandial glucose monitoring should continue. The dosage of INCRELEX™ should be individualized for each patient. The recommended starting dose of INCRELEX™ is 0.04 to 0.08 mg/kg (40 to 80 µg/kg) twice daily by subcutaneous injection. If well-tolerated for at least one week, the dose may be increased by 0.04 mg/kg per dose, to the maximum dose of 0.12 mg/kg given twice daily. Doses greater than 0.12 mg/kg given twice daily have not been evaluated in children with Primary IGFD and, due to potential hypoglycemic effects, should not be used. If hypoglycemia occurs with recommended doses, despite adequate food intake, the dose should be reduced. INCRELEX™ should be administered shortly before or after (± 20 minutes) a meal or snack. If the patient is unable to eat shortly before or after a dose for any reason, that dose of INCRELEX™ should be withheld. Subsequent doses of INCRELEX™ should never be increased to make up for one or more omitted dose.

INCRELEX™ injection sites should be rotated to a different site with each injection.

INCRELEX™ should be administered using sterile disposable syringes and needles. The syringes should be of small enough volume that the prescribed dose can be withdrawn from the vial with reasonable accuracy.

STABILITY AND STORAGE

Before Opening - Vials of INCRELEX™ are stable when refrigerated [2° to 8°C (35° to 46°F)]. Avoid freezing the vials of INCRELEX™. Protect from direct light. Expiration dates are stated on the labels.

After Opening - Vials of INCRELEX™ are stable for 30 days after initial vial entry when stored at 2° to 8°C (35° to 46°F). Avoid freezing the vials of INCRELEX™. Protect from direct light.

Vial contents should be clear without particulate matter. If the solution is cloudy or contains particulate matter, the contents must not be injected. INCRELEX™ should not be used after its expiration date. Keep refrigerated and use within 30 days of initial vial entry. Remaining unused material should be discarded.

HOW SUPPLIED

INCRELEX™ is supplied as a 10 mg/mL sterile solution in multiple dose glass vials (40 mg/vial).

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Rx only

Manufactured for:	Tercica, Inc. Brisbane, CA 94005 USA
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