

GADOTERIDOL- gadoteridol injection

Slate Run Pharmaceuticals, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

GADOTERIDOL Injection, single dose, for intravenous use

Initial U.S. Approval: 1992

WARNING: RISK ASSOCIATED WITH INTRATHECAL USE and NEPHROGENIC SYSTEMIC FIBROSIS

See full prescribing information for complete boxed warning.

- Intrathecal administration of gadolinium-based contrast agents (GBCAs) can cause serious adverse reactions including death, coma, encephalopathy, and seizures. Gadoteridol injection is not approved for intrathecal use (5.1).
- GBCAs increase the risk for nephrogenic systemic fibrosis (NSF) among patients with impaired elimination of the drugs. Avoid use of Gadoteridol injection in these patients unless the diagnostic information is essential and not available with non-contrasted MRI or other modalities. NSF may result in fatal or debilitating systemic fibrosis affecting the skin, muscle and internal organs. The risk for NSF appears highest among patients with:
 - chronic, severe kidney disease (GFR less than 30 mL/min/1.73 m²), or
 - acute kidney injury
- Screen patients for acute kidney injury and other conditions that may reduce renal function. For patients at risk for chronically reduced renal function (e.g. age greater than 60 years, hypertension or diabetes), estimate the glomerular filtration rate (GFR) through laboratory testing (5.2).

INDICATIONS AND USAGE

Gadoteridol Injection is a gadolinium-based contrast agent indicated for magnetic resonance imaging (MRI) to visualize:

- lesions with disrupted blood brain barrier and/or abnormal vascularity in the brain (intracranial lesions), spine and associated tissues in adults and pediatric patients, including term neonates (1.1)
- lesions in the head and neck in adults (1.2)

DOSAGE AND ADMINISTRATION

- Recommended dose in adult and pediatric patients is 0.2 mL/kg (0.1 mmol/kg) body weight administered as rapid intravenous infusion or bolus (2.1)
- Follow injection with a saline flush of at least 5 mL normal saline (2.1)

DOSAGE FORMS AND STRENGTHS

Injection: contains 279.3 mg/mL (0.5 mmol/mL) of gadoteridol supplied in single dose vials (2.3, 3, 16)

CONTRAINDICATIONS

Allergic or hypersensitivity reactions to Gadoteridol Injection (4)

WARNINGS AND PRECAUTIONS

- Hypersensitivity: anaphylactic/anaphylactoid reactions with cardiovascular, respiratory and cutaneous manifestations, ranging from mild to severe reactions including shock can occur. Monitor patients closely for need of emergency cardiorespiratory support (5.3)
- Gadolinium is retained for months or years in brain, bone, and other organs. (5.4)

ADVERSE REACTIONS

The most commonly reported adverse reactions are nausea and taste perversion with an incidence ≥ 0.9% (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Slate Run Pharmaceuticals, LLC at 1-888-341-9214 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

Pregnancy: Use only if imaging is essential during pregnancy and cannot be delayed. (8.1)

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FULL PRESCRIBING INFORMATION

WARNING: RISK ASSOCIATED WITH INTRATHECAL USE and NEPHROGENIC SYSTEMIC FIBROSIS

Risk Associated with Intrathecal Use

Intrathecal administration of gadolinium-based contrast agents (GBCAs) can cause serious adverse reactions including death, coma, encephalopathy, and seizures. Gadoteridol injection is not approved for intrathecal use [see *Warnings and Precautions (5.1)*] .

Nephrogenic Systemic Fibrosis

GBCAs increase the risk for nephrogenic systemic fibrosis (NSF) among patients with impaired elimination of the drugs. Avoid use of Gadoteridol injection in these patients unless the diagnostic information is essential and not available with non-contrasted MRI or other modalities. NSF may result in fatal or debilitating systemic fibrosis affecting the skin, muscle and internal organs.

The risk for NSF appears highest among patients with:

- chronic, severe kidney disease (GFR less than 30 mL/min/1.73 m²), or
- acute kidney injury

Screen patients for acute kidney injury and other conditions that may reduce renal function. For patients at risk for chronically reduced renal function (e.g. age greater than 60 years, hypertension or diabetes), estimate the glomerular filtration rate (GFR) through laboratory testing.

For patients at highest risk for NSF, do not exceed the recommended gadoteridol dose and allow a sufficient period of time for elimination of the drug from the body prior to re-administration [see *Warnings and Precautions (5.2)*] .

1 INDICATIONS AND USAGE

1.1 MRI of the Central Nervous System (CNS)

Gadoteridol Injection is indicated for magnetic resonance imaging (MRI) in adults and pediatric patients including term neonates to visualize lesions with disrupted blood brain barrier and/or abnormal vascularity in the brain (intracranial lesions), spine and associated tissues.

1.2 MRI of Extracranial/Extraspinal Head and Neck

Gadoteridol Injection is indicated for MRI in adults to visualize lesions in the head and neck.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dose

The recommended dose for adult and pediatric patients, including term neonates, is 0.2 mL/kg (0.1 mmol/kg) administered as a rapid intravenous infusion (10 mL/min to 60 mL/min) or bolus (greater than 60 mL/min). Table 1 provides weight-adjusted recommended dose volumes.

Table 1: Recommended Volume of Gadoteridol Injection by Body Weight

Body Weight (kg)	Volume to be Administered (mL)
2.5	0.5
5	1
10	2
20	4
30	6
40	8
50	10
60	12
70	14
80	16
90	18
100	20
110	22
120	24
130	26
140	28
150	30

MRI of the CNS in Adults

- A supplementary dose of 0.4 mL/kg (0.2 mmol/kg) may be given up to 30 minutes after the first dose in adult patients with normal renal function suspected of having poorly visualized CNS lesions, in the presence of negative or equivocal scans
- The safety and efficacy of supplementary dosing have not been established in pediatric patients

2.2 Administration

- Visually inspect Gadoteridol Injection for particulate matter and discoloration prior to use
- Do not administer the solution if it is discolored or particulate matter is present
- Concurrent medications or parenteral nutrition should not be physically mixed with contrast agents and should not be administered in the same intravenous line because of the potential for chemical incompatibility
- Inject at least a 5 mL normal saline flush immediately after Gadoteridol Injection to ensure complete administration
- Imaging procedures should be completed within 1 hour
- Gadoteridol Injection vials are intended only for single-dose administration. Administer

immediately after opening and discard any unused product

2.3 Directions for Use

Vials

Draw Gadoteridol Injection into the syringe immediately before use. Do not pierce the rubber stopper more than once. Discard any unused vial contents.

3 DOSAGE FORMS AND STRENGTHS

Gadoteridol Injection, USP is supplied as a sterile, non-pyrogenic, and colorless to slightly yellow solution available in single-dose vials. Each mL contains 279.3 mg (0.5 mmol/mL) of gadoteridol for injection.

4 CONTRAINDICATIONS

Gadoteridol Injection is contraindicated in patients with known allergic or hypersensitivity reactions to Gadoteridol Injection [see *Warnings and Precautions (5.3)*] .

5 WARNINGS AND PRECAUTIONS

5.1 Risk Associated with Intrathecal Use

Intrathecal administration of GBCAs can cause serious adverse reactions including death, coma, encephalopathy, and seizures. The safety and effectiveness of Gadoteridol injection have not been established with intrathecal use. Gadoteridol injection is not approved for intrathecal use [see *Dosage and Administration (2.1)*] .

5.2 Nephrogenic Systemic Fibrosis

GBCAs increase the risk for nephrogenic systemic fibrosis (NSF) among patients with impaired elimination of the drugs. Avoid use of Gadoteridol injection among these patients unless the diagnostic information is essential and not available with non-contrast MRI or other modalities. The GBCA-associated NSF risk appears highest for patients with chronic, severe kidney disease (GFR less than 30 mL/min/1.73 m²) as well as patients with acute kidney injury. The risk appears lower for patients with chronic, moderate kidney disease (GFR 30 - 59 mL/min/1.73 m²) and little, if any, for patients with chronic, mild kidney disease (GFR 60 - 89 mL/min/1.73 m²). NSF may result in fatal or debilitating fibrosis affecting the skin, muscle and internal organs. Report any diagnosis of NSF following gadoteridol administration to Slate Run Pharmaceuticals, LLC at 1-888-341-9214 or FDA (1-800-FDA-1088 or www.fda.gov/medwatch).

Screen patients for acute kidney injury and other conditions that may reduce renal function. Features of acute kidney injury consist of rapid (over hours to days) and usually reversible decrease in kidney function, commonly in the setting of surgery, severe infection, injury or drug-induced kidney toxicity. Serum creatinine levels and estimated GFR may not reliably assess renal function in the setting of acute kidney injury. For patients at risk for chronically reduced renal function (for example, age greater than 60 years, diabetes mellitus or chronic hypertension), estimate the GFR

through laboratory testing.

Among the factors that may increase the risk for NSF are repeated or higher than recommended doses of a GBCA and the degree of renal impairment at the time of exposure. Record the specific GBCA and the dose administered to a patient. For patients at highest risk for NSF, do not exceed the recommended gadoteridol dose and allow a sufficient period of time for elimination of the drug prior to re-administration. For patients receiving hemodialysis, physicians may consider the prompt initiation of hemodialysis following the administration of a GBCA in order to enhance the contrast agent's elimination. The usefulness of hemodialysis in the prevention of NSF is unknown [*see Clinical Pharmacology (12)*].

5.3 Hypersensitivity Reactions

Anaphylactic and anaphylactoid reactions have been reported, involving cardiovascular, respiratory, and/or cutaneous manifestations. Some patients experienced circulatory collapse and died. In most cases, initial symptoms occurred within minutes of gadoteridol administration and resolved with prompt emergency treatment.

Prior to gadoteridol administration, ensure the availability of trained personnel and medications to treat hypersensitivity reactions. Consider the risk for hypersensitivity reactions, especially in patients with a history of hypersensitivity reactions or a history of asthma or other allergic disorders. If such a reaction occurs, stop gadoteridol and immediately begin appropriate therapy. Observe patients for signs and symptoms of a hypersensitivity reaction during and for up to 2 hours after gadoteridol administration.

5.4 Gadolinium Retention

Gadolinium is retained for months or years in several organs. The highest concentrations (nanomoles per gram of tissue) have been identified in the bone, followed by other organs (e.g. brain, skin, kidney, liver, and spleen). The duration of retention also varies by tissue and is longest in bone. Linear GBCAs cause more retention than macrocyclic GBCAs. At equivalent doses, retention varies among the linear agents with Omniscan (gadodiamide) and Optimark (gadoversetamide) causing greater retention than other linear agents [Eovist (gadoxetate disodium), Magnevist (gadopentetate dimeglumine), MultiHance (gadobenate dimeglumine)]. Retention is lowest and similar among the macrocyclic GBCAs [Dotarem (gadoterate meglumine), Gadavist (gadobutrol), gadoteridol].

Consequences of gadolinium retention in the brain have not been established. Pathologic and clinical consequences of GBCA administration and retention in skin and other organs have been established in patients with impaired renal function [*see Warnings and Precautions (5.2)*]. There are rare reports of pathologic skin changes in patients with normal renal function. Adverse events involving multiple organ systems have been reported in patients with normal renal function without an established causal link to gadolinium retention [*see Adverse Reactions (6.2)*].

While clinical consequences of gadolinium retention have not been established in patients with normal renal function, certain patients might be at higher risk. These include patients requiring multiple lifetime doses, pregnant and pediatric patients, and patients with inflammatory conditions. Consider the retention characteristics of the agent when choosing a GBCA for these patients. Minimize repetitive GBCA imaging studies, particularly closely spaced studies when possible.

5.5 Acute Kidney Injury

In patients with chronically reduced renal function, acute kidney injury requiring dialysis has occurred with the use of GBCAs. The risk of acute kidney injury may increase with increasing dose of the contrast agent; administer the lowest dose necessary for adequate imaging.

6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in greater detail in other sections of the prescribing information:

- Nephrogenic systemic fibrosis [see *Boxed Warning and Warnings and Precautions (5.2)*].
- Hypersensitivity reactions [see *Contraindications (4) and Warnings and Precautions (5.3)*].

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.

The adverse events described in this section were observed in clinical trials involving 3174 subjects (including 2896 adults and 278 pediatric subjects ages 0 to 17 years) exposed to Gadoteridol Injection. Approximately 48% of the subjects were men and ethnic distribution was 78% Caucasian, 6% Black, 3% Hispanic, 6% Asian, and 2% other. In 5% of the subjects, race was not reported. Average age was 47 years (range from 1 day to 91 years) and the exposure ranged from 0.03 to 0.3 mmol/kg.

Overall, approximately 5.8% of subjects reported one or more adverse reactions during a follow-up period that ranged from 24 hours to 7 days after Gadoteridol Injection administration.

Table 2 lists adverse reactions that occurred in $\geq 0.4\%$ subjects who received Gadoteridol Injection.

Table 2: More frequent adverse reactions in clinical trials

Reaction	Rate (%) N=3174
Nausea	1.4%
Dysgeusia	0.9%
Headache	0.7%
Dizziness	0.4%
Urticaria	0.4%

The following additional adverse events occurred in fewer than 0.4% of the subjects:

General disorders and administration site conditions:

Asthenia; chest discomfort, facial edema, feeling hot, injection site coldness, injection site erythema, injection site pain, injection

Cardiac:	site warmth, pain, pyrexia Angina pectoris, palpitations, atrio-ventricular block first degree
Ear and labyrinth disorders:	Ear discomfort, tinnitus
Eye disorders:	Eye pruritis, lacrimation increased
Gastrointestinal disorders:	Abdominal discomfort, abdominal pain, diarrhea, dry mouth, gingival pain, oral pruritis, swollen tongue, vomiting
Infections and infestations:	Gingivitis, rhinitis
Investigations:	Alanine aminotransferase increased, aspartate aminotransferase increased, blood chloride increased, blood pressure immeasurable, blood urea decreased, hemoglobin decreased, heart rate increased
Metabolism and nutrition disorders:	Decreased appetite, hypoglycemia
Musculoskeletal and connective tissue disorders:	Back pain, musculoskeletal stiffness
Nervous system disorders:	Formication, hypoesthesia, hypokinesia, lethargy, loss of consciousness, migraine, paresthesia, presyncope, seizure, syncope, taste disorder
Psychiatric disorder:	Anxiety, mental status changes
Respiratory, thoracic and mediastinal disorders:	Cough, dry throat, dyspnea, nasal discomfort, throat irritation
Skin and subcutaneous tissue disorders:	Hyperhidrosis, pruritis, rash, rash morbilliform
Vascular disorders:	Flushing, hypotension, peripheral coldness, vascular rupture, vasodilatation, vasospasm

6.2 Post-Marketing Experience

The following adverse reactions have been identified during post approval use of Gadoteridol Injection that were not observed in the clinical trials. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

The following adverse drug reactions have also been reported:

General disorders and administration site conditions:	Adverse events with variable onset and duration have been reported after GBCA administration [see <i>Warnings and Precautions (5.4)</i>]. These include fatigue, asthenia, pain syndromes, and heterogeneous clusters of symptoms in the neurological, cutaneous, and musculoskeletal systems.
Cardiac disorders:	Cardiac arrest, bradycardia, hypertension

Gastrointestinal disorders:	Acute pancreatitis with onset within 48 hours after GBCA administration
Immune system disorders:	Hypersensitivity/anaphylactoid reactions including cardiac arrest, cyanosis, pharyngeal edema, laryngospasm, bronchospasm, angioedema, cough, sneezing, conjunctivitis, eyelid edema, hyperhidrosis, urticaria [see <i>Warnings and Precautions</i> (5.3)] .
Nervous system disorders:	Coma, loss of consciousness, vasovagal reaction, tremor
Respiratory, thoracic and mediastinal disorders:	Respiratory arrest, acute respiratory distress syndrome, pulmonary edema
Renal and urinary system disorders:	Acute renal failure *

* Cases of acute renal failure have been reported in patients with pre-existing severe renal impairment.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

GBCAs cross the placenta and result in fetal exposure and gadolinium retention. The human data on the association between GBCAs and adverse fetal outcomes are limited and inconclusive (see *Data*) . Because of the potential risks of gadolinium to the fetus, use Gadoteridol Injection only if imaging is essential during pregnancy and cannot be delayed.

In animal reproduction studies in rats, gadoteridol doubled the incidence of post-implantation loss at up to 16 times the recommended human dose (RHD). There were no adverse developmental effects observed in rabbits with intravenous administration of gadoteridol during organogenesis at doses up to 19 times the recommended human dose of 0.1 mmol/kg (see *Data*) .

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and is 15 to 20%, respectively.

Data

Human Data

Contrast agent is visualized in the placenta and fetal tissues after maternal GBCA administration. Cohort studies and case reports on exposure to GBCAs during pregnancy have not reported a clear association between GBCAs and adverse effects in the exposed neonates. However, a retrospective cohort study, comparing pregnant women who had a GBCA MRI to pregnant women who did not have an MRI, reported a higher occurrence of stillbirths and neonatal deaths in the group receiving GBCA MRI. Limitations of this study include a lack of comparison with non-contrast MRI and lack of

information about the maternal indication for MRI.

Animal Data

Gadolinium Retention

GBCAs administered to pregnant non-human primates (0.1 mmol/kg on gestational days 85 and 135) result in measurable gadolinium concentration in the offspring in bone, brain, skin, liver, kidney, and spleen for at least 7 months. GBCAs administered to pregnant mice (2 mmol/kg daily on gestational days 16 through 19) result in measurable gadolinium concentrations in the pups in bone, brain, kidney, liver, blood, muscle, and spleen at one-month postnatal age.

Reproductive Toxicology

Gadoteridol was administered in intravenous doses of 0, 0.375, 1.5, 6.0, and 10 mmol/kg/day [0.6, 2.4, 9.7, and 16 times the recommended human dose (RHD) based on body surface area (BSA)] to female rats from gestational day (GD) 6 until GD17. Gadoteridol at 10 mmol/kg/day for 12 days during gestation doubled the incidence of post-implantation loss. When rats were administered 6.0 or 10.0 mmol/kg/day for 12 days, an increase in spontaneous locomotor activity was observed in the offspring. Pregnant rabbits were administered gadoteridol in intravenous doses of 0, 0.4, 1.5, and 6 mmol/kg/day (1.3, 4.8, and 19.4 times the RHD based on BSA) from GD6 to GD18. Gadoteridol increased the incidence of spontaneous abortion and early delivery in rabbits administered 6 mmol/kg/day for 13 days during gestation.

8.2 Lactation

Risk Summary

There are no data on the presence of gadoteridol in human milk, the effects on the breastfed infant, or the effects on milk production. However, published lactation data on other GBCAs indicate that 0.01 to 0.04% of the maternal gadolinium dose is present in breast milk and there is limited GBCA gastrointestinal absorption in the breast-fed infant. Gadoteridol is present in rat milk (*see Data*). The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Gadoteridol Injection and any potential adverse effects on the breastfed infant from Gadoteridol Injection or from the underlying maternal condition.

Data

Gadoteridol Injection excretion in the milk of lactating rats was evaluated at 30 minutes, 6 and 24 hours after intravenous administration of 0.1 mmol/kg of ¹⁵³Gd-gadoteridol to nursing mothers. Small amounts of compound were found in milk immediately after injection (0.14% of the ID), with the amount declining to a low level 24 hours after injection (<0.01% of the ID).

8.4 Pediatric Use

The safety and effectiveness of Gadoteridol Injection have been established for use with MRI to visualize lesions with abnormal blood brain barrier or abnormal vascularity of the brain, spine, and associated tissues in pediatric patients from birth, including term neonates, to 17 years of age. Pediatric use is based on evidence of effectiveness in adults and in 103 pediatric patients 2 years of age and older, in addition to experience in

125 pediatric patients birth to less than 2 years of age that supported extrapolation from adult data [see *Clinical Studies (14)*] . Adverse reactions in pediatric patients were similar to those reported in adults [see *Adverse Reactions (6.1)*] .

The safety and efficacy of > 0.1 mmol/kg, and sequential and/or repeat procedures have not been studied in pediatric patients [see *Indications and Usage (1)* and *Dosage and Administration (2)*] .

No case of NSF associated with Gadoteridol Injection or any other GBCA has been identified in pediatric patients ages 6 years and younger. Pharmacokinetic studies suggest that weight normalized clearance of Gadoteridol Injection is similar in pediatric patients and adults, including pediatric patients age younger than 2 years. Normal estimated GFR (eGFR) is around 30 mL/min/1.73 m² at birth and increases to mature levels around 1 year of age, reflecting growth in both glomerular function and relative body surface area. Clinical studies in pediatric patients younger than 1 year of age have been conducted in patients with the following minimum eGRF; 59.37 mL/min/1.73 m² (age just after birth to < 30 days), 118.84 mL/min/1.73 m² (age 30 days to < 6 months), 140.44 mL/min/1.73 m² (age 6 to 12 months).

8.5 Geriatric Use

Of the total number of 2673 adult subjects in clinical studies of Gadoteridol Injection, 22% were 65 and over. No overall differences in safety were observed between these elderly subjects and the younger subjects.

Gadoteridol Injection is known to be substantially excreted by the kidneys, and the risk of toxic reactions from Gadoteridol Injection may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, it may be useful to monitor renal function.

8.6 Renal Impairment

No Gadoteridol Injection dosage adjustment is recommended for patients with renal impairment. Gadoteridol can be removed from the body by hemodialysis [see *Warning and Precautions (5.2)* and *Clinical Pharmacology (12.3)*] .

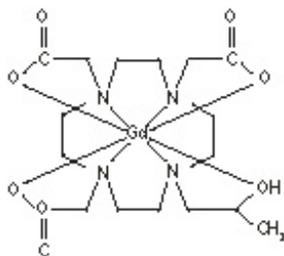
10 OVERDOSAGE

Clinical consequences of overdose with Gadoteridol Injection have not been reported. The safety of Gadoteridol Injection has been tested in clinical studies using doses up to 0.3 mmol/kg and no clinical consequences related to increasing dose have been observed to date. Gadoteridol can be removed by hemodialysis [see *Use in Specific Populations (8.6)* and *Clinical Pharmacology (12.3)*].

11 DESCRIPTION

Gadoteridol Injection, USP, a gadolinium-based paramagnetic MRI contrast agent, is a colorless to slightly yellow aqueous, sterile, non-pyrogenic injectable solution for intravenous use. Each mL contains 279.3 mg (0.5 mmol/mL) gadoteridol, 0.23 mg calteridol calcium, 1.21 mg tromethamine and water for injection; pH adjusted with hydrochloric acid and/or sodium hydroxide. Gadoteridol Injection, USP contains no antimicrobial preservative.

Gadoteridol is the gadolinium complex of 10-(2-hydroxy-propyl)-1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid with a molecular weight of 558.7, an empirical formula of $C_{17}H_{29}N_4O_7Gd$ and has the following structural formula:



Gadoteridol Injection, USP has a pH of 6.5 to 8.0. Pertinent physiochemical parameters are provided below:

Osmolality	630 mOsmol/kg water at 37°C
Viscosity	1.3 cP at 37°C
Density	1.137 g/mL at 25°C

Gadoteridol Injection, USP has an osmolality that is 2.2 times that of plasma (285 mOsmol/kg water) and is hypertonic under conditions of use.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Gadoteridol is a paramagnetic agent and, as such, develops a magnetic moment when placed in a magnetic field. The relatively large magnetic moment produced by the paramagnetic agent results in a relatively large local magnetic field, which can enhance the relaxation rates of water protons in the vicinity of the paramagnetic agent.

In MRI, visualization of normal and pathologic brain tissue depends, in part, on variations in the radiofrequency signal intensity that occur with: 1) differences in proton density; 2) differences of the spin-lattice or longitudinal relaxation times (T1); and 3) differences in the spin-spin or transverse relaxation time (T2). When placed in a magnetic field, gadoteridol decreases T1 relaxation times in the target tissues. At recommended doses, the effect is observed with greatest sensitivity in the T1-weighted sequences.

12.2 Pharmacodynamics

Gadoteridol affects proton relaxation times and consequently the MR signal. Signal intensity is affected by the dose and relaxivity of the gadoteridol molecule. Consistently, for all gadolinium based contrast agents, the relaxivity of gadoteridol decreases with the increase of the magnetic field strength used in clinical MRI (0.2-3.0T).

Disruption of the blood-brain barrier or abnormal vascularity allows accumulation of gadoteridol in lesions such as neoplasms, abscesses, and subacute infarcts. The

pharmacokinetics of gadoteridol in various lesions is not known.

12.3 Pharmacokinetics

The pharmacokinetics of intravenously administered gadoteridol in normal subjects conforms to a two-compartment open model.

Distribution

After intravenous administration, gadoteridol is rapidly distributed in the extracellular space. The plasma distribution volume (mean \pm SD) for the non-renal impaired adults was 0.205 ± 0.025 L/kg. It is unknown if protein binding of gadoteridol occurs *in vivo*.

Following GBCA administration, gadolinium is present for months or years in brain, bone, skin, and other organs [see *Warnings and Precautions (5.4)*] .

Metabolism

It is unknown if biotransformation or decomposition of gadoteridol occur *in vivo*.

Elimination

Gadoteridol is eliminated unchanged via the kidneys. The elimination half-life (mean \pm SD) is about 1.57 ± 0.08 hours. Within 24 hours post-injection, $94.4 \pm 4.8\%$ of the dose is excreted in the urine. The renal and plasma clearance rates (1.41 ± 0.33 mL/min/kg and 1.50 ± 0.35 mL/min/kg, respectively) of gadoteridol are essentially identical, indicating no alteration in elimination kinetics on passage through the kidneys and that the drug is essentially cleared through the kidney. The volume of distribution (204 ± 58 mL/kg) is equal to that of extracellular water, and clearance is similar to that of substances which are subject to glomerular filtration.

Specific Populations

Gender

Gender has no clinically relevant effect on the pharmacokinetics of gadoteridol.

Geriatric

There were 7 elderly subjects receiving 0.1 (n = 3) and 0.3 mmol/kg (n = 4) dose of gadoteridol. The clearance was slightly lower in elderly subjects as compared to non-elderly subjects [see *Use in Specific Populations (8.5)*] .

Pediatric

A population pharmacokinetic analysis incorporated data from 79 subjects, 45 males and 34 females. Among 79 subjects, 41 were healthy subjects including 28 pediatric subjects between 5 years and 15 years of age. The pediatric subjects received a single intravenous dose of 0.1 mmol/kg of gadoteridol. From population PK model, the mean C_{max} was 0.66 ± 0.21 mmol/L in pediatric subjects 2 years to 6 years of age, 0.58 ± 0.06 mmol/L in pediatric subjects 6 years to 12 years of age, and 0.68 ± 0.12 mmol/L in adolescent subjects older than 12 years. The mean $AUC_{0-\infty}$ was 0.74 ± 0.20 mmol/L·h in pediatric subjects 2 years to 6 years of age, 0.74 ± 0.09 mmol/L·h in pediatric subjects 6 years to 12 years of age, and 0.98 ± 0.09 mmol/L·h in adolescent subjects older than 12 years of age. The mean distribution half- life ($t_{1/2,\alpha}$) was 0.14 ± 0.04 hours in

pediatric subjects 2 years to 6 years of age, 0.18 ± 0.07 hours in pediatric subjects 6 years to 12 years of age, and 0.20 ± 0.07 hours in adolescent subjects older than 12 years of age. The mean elimination half-life ($t_{1/2,\beta}$) was 1.32 ± 0.006 hours in pediatric subjects 2 years to 6 years, 1.32 ± 0.07 hours in pediatric subjects 6 years to 12 years of age, and 1.61 ± 0.19 hours in adolescent subjects older than 12 years of age. There was no significant gender-related difference in the pharmacokinetic parameters in the pediatric patients. Over 80% of the dose was recovered in urine for pediatric subjects after 10 hours. Pharmacokinetic simulations indicate similar half-life, AUC, and C_{\max} values for gadoteridol in pediatric subjects less than 2 years of age when compared to those reported for adults; no age-based dose adjustment is necessary for this pediatric population.

Renal Impairment

In patients with impaired renal function, the serum half-life of gadoteridol is prolonged. After intravenous injection of 0.1 mmol/kg, the elimination half-life of gadoteridol was 10.65 ± 0.06 hours in mild to moderately impaired patients (creatinine clearance 30 to 60 mL/min) and 9.10 ± 0.26 hours in severely impaired patients not on dialysis (creatinine clearance 10 to 30 mL/min). The mean serum clearance of gadoteridol in patients with normal renal function was 116.14 ± 26.77 mL/min, compared to 37.2 ± 16.4 mL/min in patients with mild to moderate renal impairment and 16.0 ± 3.0 mL/min in patients with severe renal impairment.

In patients with moderately and severely impaired renal function about 97% and 76% of the administered dose was recovered in the urine within 7 days and 14 days, respectively.

For patients receiving hemodialysis, physicians may consider the prompt initiation of hemodialysis following the administration of Gadoteridol Injection in order to enhance the contrast agent's elimination. Seventy-two percent (72%) of gadoteridol is removed from the body after the first dialysis, 91% after the second dialysis, and 98% after the third dialysis session. [See *Warnings and Precautions (5.2) and Use in Specific Populations (8.6)*]

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No animal studies have been performed to evaluate the carcinogenic potential of gadoteridol.

No changes in reproductive performance and outcome of pregnancy were caused in rats and rabbits by daily intravenous administration of Gadoteridol Injection to parent animals before and during gestation up to 1.5 mmol/kg/day (15 times the recommended human dose).

Gadoteridol did not demonstrate genotoxic activity in: bacterial reverse mutation assays using *Salmonella typhimurium* and *Escherichia coli*; a mouse lymphoma forward mutation assay; an *in vitro* cytogenetic assay measuring chromosomal aberration frequencies in Chinese hamster ovary cells; and an *in vivo* mouse micronucleus assay at intravenous doses up to 5.0 mmol/kg.

14 CLINICAL STUDIES

14.1 MRI of the CNS

Gadoteridol was evaluated in two multicenter trials of 310 evaluable patients suspected of having neurological pathology. After the administration of gadoteridol 0.1 mmol/kg IV, the results were similar to those described below [see *Clinical Studies (14.2)*].

In another multicenter study of 49 evaluable adult patients with known intracranial tumor with high suspicion of having cerebral metastases, two doses of gadoteridol were administered. First Gadoteridol Injection 0.1 mmol/kg was injected followed 30 minutes later with 0.2 mmol/kg. In comparison to the 0.1 mmol/kg dose alone, the addition of the 0.2 mmol/kg dose improved visualization in 67% and improved border definition in 56% of patients. In comparison to non-contrast MRI, the number of lesions after 0.1 mmol/kg increased in 34% of patients. After gadoteridol 0.2 mmol/kg, this increased to 44%.

Pediatric Patients

Gadoteridol was evaluated in a multicenter study of 103 patients undergoing brain or spine MRI. Among these patients, the age range was 2 to 20 years; 54 were between 2 and 12 years of age; 74% were Caucasian, 11% Black, 12% Hispanic, 2% Asian, and 2% other. Gadoteridol was given in one single 0.1 mmol/kg dose. Repeat dosing was not studied. The results of the non-contrast and gadoteridol MRI scans were compared. In this database, MRI enhancement was noted in approximately 60% of the scans and additional diagnostic information in 30 to 95% of the scans.

A prospectively planned study of 125 pediatric patients younger than 2 years of age retrospectively selected was performed. These patients (70 boys and 55 girls) had an age range of 1 day to 24 months old; 17 were less than 1 month of age, 40 were between 1 month and 6 months of age, 29 were between 6 months and 12 months of age, and 39 were between 12 months and 24 months of age; 56% were Caucasian, 25% Black, 5% Asian, and 14% other. Gadoteridol was given in one single 0.1 mmol/kg dose. Repeat dosing was not studied. Three independent, blinded readers evaluated pre-contrast MRI image sets and paired pre-plus-post-contrast MRI image sets using gadoteridol and rated the images according to three co-primary visualization endpoints: lesion border delineation, visualization of lesion internal morphology, and lesion contrast enhancement. All three blinded readers reported improvement in the paired image sets for each of the three co-primary endpoints.

14.2 MRI of the Head and Neck

Gadoteridol was evaluated in two blinded read studies in a total of 133 adults who had an indication for head and neck extracranial or extraspinal MRI. These 133 adults (74 men, 59 women) had a mean age of 53 with a range of 19 to 76 years. Of these patients, 85% were Caucasian, 13% Black, 2% Asian, and less than 1% other. The results of the non-contrast and contrast MRI scans were compared. Approximately 75-82% of the scans were enhanced, 45-48% of the scans provided additional diagnostic information, and 8-25% of the diagnoses were changed. The relevance of the findings to disease sensitivity and specificity has not been fully evaluated.

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

Gadoteridol Injection, USP is supplied as a sterile, nonpyrogenic, and colorless to slightly yellow solution containing 279.3 mg/mL (0.5 mmol/mL) of gadoteridol in single-dose rubber stoppered vials; Gadoteridol Injection, USP is available in boxes of:

Five 5 mL fills in single dose 10 mL vials (NDC 70436-121-31)

Five 10 mL fills in single dose 20 mL vials (NDC 70436-121-33)

Five 15 mL fills in single dose 20 mL vials (NDC 70436-121-34)

Five 20 mL fills in single dose 20 mL vials (NDC 70436-121-35)

Discard unused portion.

Storage and Handling

Store at 20° to 25°C (68° to 77° F). Excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature]. Protect from light. DO NOT FREEZE. Should freezing occur in the vial, Gadoteridol Injection, USP should be brought to room temperature before use. If allowed to stand at room temperature for a minimum of 60 minutes, Gadoteridol Injection, USP should return to a clear, colorless to slightly yellow solution. Before use, examine the product to assure that all solids are redissolved and that the container and closure have not been damaged. Should solids persist, discard vial.

17 PATIENT COUNSELING INFORMATION

Medication Guide

- Advise patients to read the FDA-approved patient labeling (Medication Guide).

Nephrogenic Systemic Fibrosis

Instruct patients to inform their physician if they:

- have a history of kidney disease
- have recently received a GBCA

GBCAs increase the risk for NSF in patients with impaired elimination of the drugs. To counsel patients at risk for NSF:

- describe the clinical manifestations of NSF
- describe procedures to screen for the detection of renal impairment

Instruct patients to contact their physician if they develop signs or symptoms of NSF following Gadoteridol Injection administration, such as burning, itching, swelling, scaling, hardening and tightening of the skin; red or dark patches on the skin; stiffness in joints with trouble moving, bending or straightening the arms, hands, legs or feet; pain in the hip bones or ribs; or muscle weakness.

General Precautions

- Pregnancy: Advise a pregnant woman of the potential risk of fetal exposure to Gadoteridol Injection [see *Use in Specific Populations* (8.1)]
- Gadolinium retention: Advise patients that gadolinium is retained for months or years in brain, bone, skin, and other organs in patients with normal renal function. The

clinical consequences of retention are unknown. Retention depends on multiple factors and is greater following administration of linear GBCAs than following administration of macrocyclic GBCAs [see *Warnings and Precautions (5.4)*].

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Revised: 08/2025

Medication Guide

Gadoteridol Injection

["gad" oh ter' i dol"]

for intravenous use

What is the most important information I should know about Gadoteridol Injection?

- GBCAs like Gadoteridol injection may cause serious side effects including death, coma, encephalopathy, and seizures when it is given intrathecally (injection given into the spinal canal). It is not known if gadoteridol injection is safe and effective with intrathecal use. Gadoteridol injection is not approved for this use.
- Gadoteridol injection contains a metal called gadolinium. Small amounts of gadolinium can stay in your body including the brain, bones, skin and other parts of your body for a long time (several months to years).
- It is not known how gadolinium may affect you, but so far, studies have not found harmful effects in patients with normal kidneys.
- Rarely, patients have reported pains, tiredness, and skin, muscle or bone ailments for a long time, but these symptoms have not been directly linked to gadolinium.
- There are different GBCAs that can be used for your MRI exam. The amount of gadolinium that stays in the body is different for different gadolinium medicines. Gadolinium stays in the body more after Omniscan or Optimark than after Eovist, Magnevist, or MultiHance. Gadolinium stays in the body the least after Dotarem, Gadavist or Gadoteridol Injection.
- People who get many doses of gadolinium medicines, women who are pregnant and young children may be at increased risk from gadolinium staying in the body.
- Some people with kidney problems who get gadolinium medicines can develop a condition with severe thickening of the skin, muscles and other organs in the body (nephrogenic systemic fibrosis). Your healthcare provider should screen you to see how well your kidneys are working before you receive Gadoteridol Injection.

What is Gadoteridol Injection?

- Gadoteridol Injection is a prescription medicine called a gadolinium-based contrast agent (GBCA). Gadoteridol Injection, like other GBCAs, is used with a magnetic resonance imaging (MRI) scanner.
- An MRI exam with a GBCA, including Gadoteridol Injection, helps your doctor to see problems better than an MRI exam without a GBCA.

- Your doctor has reviewed your medical records and has determined that you would benefit from using a GBCA with your MRI exam.

Do not receive Gadoteridol Injection if you have had a severe allergic reaction to Gadoteridol Injection.

Before receiving Gadoteridol Injection, tell your healthcare provider about all your medical conditions, including if you:

- have had any MRI procedures in the past where you received a GBCA. Your healthcare provider may ask you for more information including the dates of these MRI procedures.
- are pregnant or plan to become pregnant. It is not known if Gadoteridol Injection can harm your unborn baby. Talk to your healthcare provider about the possible risks to an unborn baby if a GBCA such as Gadoteridol Injection is received during pregnancy.
- have kidney problems, diabetes, or high blood pressure.
- have had an allergic reaction to dyes (contrast agents) including GBCAs.

What are the possible side effects of Gadoteridol Injection?

- **See “What is the most important information I should know about Gadoteridol Injection?”**
- **Allergic reactions. Gadoteridol Injection can cause allergic reactions that can sometimes be serious. Your healthcare provider will monitor you closely for symptoms of an allergic reaction.**

The most common side effects of Gadoteridol Injection include: nausea, distortion of the sense of taste, and headache.

These are not all the possible side effects of Gadoteridol Injection.

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

General information about the safe and effective use of Gadoteridol Injection.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your healthcare provider for information about Gadoteridol Injection that is written for health professionals.

What are the ingredients in Gadoteridol Injection?

Active ingredient: gadoteridol

Inactive ingredients: calteridol calcium, tromethamine

Manufactured by: Hainan Poly Pharm. Co., Ltd., Guilinyang Economic Development Zone, Meilan District, Haikou, Hainan Province, China 571127

Distributed by: Slate Run Pharmaceuticals, LLC, Columbus, Ohio 43215. For more information, go to www.slaterunpharma.com or call 1-888-341-9214.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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Revised 08/2025

PACKAGE/LABEL PRINCIPAL DISPLAY PANEL

NDC 70436-121-31

5 mL Single-Dose Vial

NDC 70436-121-31
Gadoteridol Injection, USP
1.3965 g per 5 mL
(279.3 mg per mL)
For Intravenous Use
Discard Unused Portion
5 mL Single-Dose Vial
Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature]. Protect from light. DO NOT FREEZE.
SLATE RUN PHARMACEUTICALS
10000423/01 Rev. 02/2024
Usual Dosage: See package insert for full prescribing information.
Each mL of sterile aqueous solution provides 279.3 mg (0.5 mmol) of gadoteridol with 0.23 mg calteridol calcium and 1.21 mg of tromethamine; pH adjusted to 6.5-8.0 with hydrochloric acid and/or sodium hydroxide.
Manufactured by: Hainan Poly Pharm. Co., Ltd., Guilinyang, Economic Development Zone, Meilan District, Haikou, Hainan, China 571127
Distributed by: Slate Run Pharmaceuticals, LLC, Columbus, Ohio 43215
LOT:
EXP:

PACKAGE/LABEL DISPLAY PANEL

NDC 70436-121-33

10 mL Single-Dose Vial

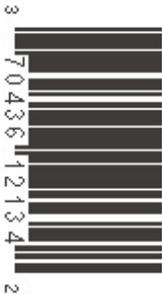
NDC 70436-121-33
Gadoteridol Injection, USP
2.793 g per 10 mL
(279.3 mg per mL)
For Intravenous Use
Discard Unused Portion
10 mL Single-Dose Vial
Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature]. Protect from light. DO NOT FREEZE.
SLATE RUN PHARMACEUTICALS
10000425/01 Rev. 02/2024
Usual Dosage: See package insert for full prescribing information.
Each mL of sterile aqueous solution provides 279.3 mg (0.5 mmol) of gadoteridol with 0.23 mg calteridol calcium and 1.21 mg of tromethamine; pH adjusted to 6.5-8.0 with hydrochloric acid and/or sodium hydroxide.
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Distributed by: Slate Run Pharmaceuticals, LLC, Columbus, Ohio 43215
LOT: Coating free area for Lot, Exp, and Serialization data.
EXP: Does not print.

PACKAGE/LABEL DISPLAY PANEL

NDC 70436-121-34

15 mL Single-Dose Vial

NDC 70436-121-34



Gadoteridol Injection, USP

4.1895 g per 15 mL
(279.3 mg per mL)

For Intravenous Use
Discard Unused Portion
15 mL Single-Dose Vial

SLATE RUN
PHARMACEUTICALS

Rx only

Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature].
Protect from light. DO NOT FREEZE.
Usual Dosage: See package insert for full prescribing information.
Each mL of sterile aqueous solution provides 279.3 mg (0.5 mmol) of gadoteridol with 0.23 mg calteridol calcium and 1.21 mg of tromethamine; pH adjusted to 6.5-8.0 with hydrochloric acid and/or sodium hydroxide.

LOT: Coating free area for Lot, Exp, and Serialization data.
EXP: Does not print.

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PACKAGE/LABEL DISPLAY PANEL

NDC 70436-121-35

20 mL Single-Dose Vial

NDC 70436-121-35



Gadoteridol Injection, USP

5.586 g per 20 mL
(279.3 mg per mL)

For Intravenous Use
Discard Unused Portion
20 mL Single-Dose Vial

SLATE RUN
PHARMACEUTICALS

Rx only

Store at 20° to 25°C (68° to 77°F). Excursions permitted to 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature].
Protect from light. DO NOT FREEZE.
Usual Dosage: See package insert for full prescribing information.
Each mL of sterile aqueous solution provides 279.3 mg (0.5 mmol) of gadoteridol with 0.23 mg calteridol calcium and 1.21 mg of tromethamine; pH adjusted to 6.5-8.0 with hydrochloric acid and/or sodium hydroxide.

LOT: Coating free area for Lot, Exp, and Serialization data.
EXP: Does not print.

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Distributed by: Slate Run Pharmaceuticals, LLC, Columbus, Ohio 43215
10000429/01 Rev. 02/2024

GADOTERIDOL

gadoteridol injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:70436-121
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
GADOTERIDOL (UNII: 0199MV609F) (GADOTERIDOL - UNII:0199MV609F)	GADOTERIDOL	279.3 mg in 1 mL

Inactive Ingredients

Ingredient Name		Strength		
CALTERIDOL CALCIUM (UNII: RPH56VWA1A)		0.23 mg in 1 mL		
TROMETHAMINE (UNII: 023C2WHX2V)		1.21 mg in 1 mL		
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70436-121-31	5 in 1 CARTON	02/20/2025	
1		5 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
2	NDC:70436-121-33	5 in 1 CARTON	02/20/2025	
2		10 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
3	NDC:70436-121-34	5 in 1 CARTON	02/20/2025	
3		15 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
4	NDC:70436-121-35	5 in 1 CARTON	02/20/2025	
4		20 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA218749	02/20/2025		

Labeler - Slate Run Pharmaceuticals, LLC (039452765)

Registrant - Hainan Poly Pharm. Co., Ltd. (654561638)

Establishment

Name	Address	ID/FEI	Business Operations
Hainan Poly Pharm. Co., Ltd.		654561638	manufacture(70436-121)

Establishment

Name	Address	ID/FEI	Business Operations
Anhui Poly Pharm. Co., Ltd.		554497350	api manufacture(70436-121)

Revised: 9/2025

Slate Run Pharmaceuticals, LLC