

TRANEXAMIC ACID- tranexamic acid injection

Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

TRANEXAMIC ACID injection, for intravenous use
Initial U.S. Approval: 1986

WARNING: RISK OF MEDICATION ERRORS DUE TO INCORRECT ROUTE OF ADMINISTRATION

See full prescribing information for complete boxed warning.

Tranexamic acid injection is for intravenous use only. Serious, including fatal, adverse reactions including seizures and cardiac arrhythmias have occurred when tranexamic acid injection was inadvertently administered intrathecally via the neuraxial route. (5.1)

RECENT MAJOR CHANGES

Boxed Warning	08/2025
Dosage and Administration (2)	08/2025
Contraindication (4)	08/2025
Warnings and Precautions (5)	08/2025

INDICATIONS AND USAGE

Tranexamic acid injection is an antifibrinolytic indicated in patients with hemophilia for short-term use (2 to 8 days) to reduce or prevent hemorrhage and reduce the need for replacement therapy during and following tooth extraction. (1)

DOSAGE AND ADMINISTRATION

- Before Extraction: Administer 10 mg/kg actual body weight of tranexamic acid injection intravenously with replacement therapy as a single-dose. (2.1)
- After Extraction: Administer 10 mg/kg actual body weight of tranexamic acid injection intravenously 3 to 4 times daily for 2 to 8 days. (2.1)
- Infuse undiluted solution no more than 1 mL/minute to avoid hypotension. (2.3)
- Reduce the dosage for patients with renal impairment. (2.2, 8.6)

DOSAGE FORMS AND STRENGTHS

- Injection: 1,000 mg/10 mL (100 mg/mL) in single-dose ampules (3)
- Injection: 1,000 mg/10 mL (100 mg/mL) in single-dose vials (3)

CONTRAINDICATIONS

- As a neuraxial (i.e., intrathecal, epidural) injection. (4)
- In patients with subarachnoid hemorrhage, due to risk of cerebral edema and cerebral infarction. (4)
- In patients with active intravascular clotting. (4)
- In patients with severe hypersensitivity reactions to tranexamic acid or any of the ingredients. (4)

WARNINGS AND PRECAUTIONS

- Risk of Thrombosis with Concomitant Use of Factor IX: Avoid concomitant use. (5.2)
- Seizures: Inadvertent injection into neuraxial system may result in seizures. (5.3)
- Hypersensitivity Reactions: In case of severe reaction, discontinue use and seek immediate medical attention. (5.4)
- Visual Disturbances: Visual or ocular adverse effects may occur. Discontinue use if visual or ocular symptoms occur. (5.5)
- Dizziness: Advise patients not to drive if dizziness occurs. (5.6)

-----**ADVERSE REACTIONS**-----

Most common adverse reactions are nausea, vomiting, diarrhea, allergic dermatitis, giddiness, hypotension, and thromboembolic events. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Avet Pharmaceuticals Inc. at 1-866-901-DRUG (3784) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. (6)

-----**DRUG INTERACTIONS**-----

Prothrombotic Medical Products: Avoid concomitant use, can further increase the risk of thromboembolic adverse reactions associated with tranexamic acid. (5.2,7.1,8.3)

Revised: 11/2025

FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: RISK OF MEDICATION ERRORS DUE TO INCORRECT ROUTE OF ADMINISTRATION

RECENT MAJOR CHANGES

1 INDICATIONS & USAGE SECTION

2 DOSAGE & ADMINISTRATION SECTION

2.1 Recommended Dosage

2.2 Recommended Dosage for Patients with Varying Degrees of Renal Impairment

2.3 Preparation and Administration

3 DOSAGE FORMS & STRENGTHS SECTION

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Medication Errors Due to Incorrect Route of Administration

5.2 Thromboembolic Risk

5.3 Seizures

5.4 Hypersensitivity Reactions

5.5 Visual Disturbances

5.6 Dizziness

6 ADVERSE REACTIONS

6.2 Postmarketing Experience

7 DRUG INTERACTIONS

7.1 Prothrombotic Medical Products

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

8.2 Lactation

8.3 Females and Males of Reproductive Potential

8.4 Pediatric Use

8.5 Geriatric Use

8.6 Renal Impairment

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.2 Pharmacodynamics

12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

16 HOW SUPPLIED/STORAGE AND HANDLING

* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

WARNING: RISK OF MEDICATION ERRORS DUE TO INCORRECT ROUTE OF ADMINISTRATION

Tranexamic acid injection is for intravenous use only. Serious, including fatal, adverse reactions including seizures and cardiac arrhythmias have occurred when tranexamic acid injection was inadvertently administered via the neuraxial route [see Warnings and Precautions (5.1)].

1 INDICATIONS & USAGE SECTION

Tranexamic acid injection is indicated in patients with hemophilia for short-term use (2 to 8 days) to reduce or prevent hemorrhage and reduce the need for replacement therapy during and following tooth extraction.

2 DOSAGE & ADMINISTRATION SECTION

2.1 Recommended Dosage

The recommended dose of tranexamic acid injection is 10 mg/kg actual body weight administered as a single intravenous dose immediately before tooth extractions. Following tooth extraction, tranexamic acid injection may be administered at a dose of 10 mg/kg actual body weight intravenously 3 to 4 times daily for 2 to 8 days.

2.2 Recommended Dosage for Patients with Varying Degrees of Renal Impairment

For patients with moderate to severe impaired renal function, the following dosages are recommended

Table 1. Recommended Dosage in Patients With Varying Degrees of Renal Impairment*

Serum Creatinine (mg/dL)	Tranexamic Acid Dosage
1.36 mg/dL to 2.83 mg/dL	10 mg/kg intravenously twice daily
2.83 mg/dL to 5.66 mg/dL	10 mg/kg intravenously daily
>5.66 mg/dL	10 mg/kg intravenously every 48 hours or 5 mg/kg intravenously every 24 hours

*Dose reduction is recommended for all doses, both before and after tooth extraction.

2.3 Preparation and Administration

Tranexamic acid injection is for intravenous administration only.

Tranexamic acid injection can be administered undiluted or as a diluted solution.

- Use aseptic technique to prepare tranexamic acid injection.
- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Tranexamic acid injection is a clear and colorless solution. Discard the vial if particulate matter is observed.
- Calculate the dose (mg) based on the patients actual body weight and the total volume (mL) of tranexamic acid injection solution required.

If diluting tranexamic acid injection, follow the instructions below:

- From the diluent infusion bag, withdraw a volume equal to the volume of the tranexamic acid injection solution required for the patients dose.
- Withdraw the required volume of tranexamic acid injection solution from the vial and dilute with a compatible diluent (see below) to make a final concentration of 10 mg/mL or 20 mg/mL. Discard any unused portion left in the vial.
 - For intravenous infusion, tranexamic acid injection may be mixed with most solutions for infusion such as electrolyte solutions, carbohydrate solutions, amino acid solutions, and Dextran solutions.
 - Heparin may be added to tranexamic acid injection
 - Tranexamic acid injection should NOT be mixed with blood.
 - The drug is a synthetic amino acid and should NOT be mixed with solutions containing penicillin.
 - Gently invert the infusion bag to mix the diluted solution. DO NOT SHAKE.
 - If not used immediately, store the diluted tranexamic acid injection infusion solution at room temperature 20°C to 25°C (68°F to 77°F) for up to 4 hours.

Administration

Infuse undiluted solution no more than 1 mL/minute to avoid hypotension [see *Adverse Reactions* (6.2)].

Administer the undiluted and diluted solutions intravenously according to Table 2.

Table 2. Administration Rates for Undiluted and Diluted Solutions

	Undiluted solution	Diluted solution	
Final concentration	100 mg/mL	10 mg/mL	20 mg/mL
Administration rate	0.5 mL/minute (no more than 1 mL/minute)	5 mL/minute	2.5 mL/minute

3 DOSAGE FORMS & STRENGTHS SECTION

Injection: 1,000 mg/10 mL (100 mg/mL) clear and colorless solution in single-dose ampules

Injection: 1,000 mg/10 mL (100 mg/mL) clear and colorless solution in single-dose vials

4 CONTRAINDICATIONS

Tranexamic acid injection is contraindicated:

- As a neuraxial (i.e., intrathecal, epidural) injection [see *Warnings and Precautions (5.1)*].
- In patients with subarachnoid hemorrhage. Anecdotal experience indicates that cerebral edema and cerebral infarction may be caused by tranexamic acid injection in such patients.
- In patients with active intravascular clotting [see *Warnings and Precautions (5.2)*].
- In patients with hypersensitivity to tranexamic acid or any of the ingredients [see *Warnings and Precautions (5.4)*].

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Medication Errors Due to Incorrect Route of Administration

Tranexamic acid injection is for intravenous use only. Serious, including fatal, adverse reactions including seizures and cardiac arrhythmias have occurred when tranexamic acid injection was inadvertently administered via the neuraxial route.

Confirm the correct route of administration for tranexamic acid injection and avoid confusion with other injectable solutions that might be administered at the same time as tranexamic acid injection. Clearly label syringes containing tranexamic acid injection with the intravenous route of administration.

5.2 Thromboembolic Risk

Tranexamic acid injection is contraindicated in patients with active intravascular clotting.

Tranexamic acid is an antifibrinolytic and may increase the risk of thromboembolic events. Venous and arterial thrombosis or thromboembolism has been reported in patients treated with tranexamic acid injection. Avoid concomitant use of tranexamic acid injection and medical products that are pro-thrombotic, as the risk of thrombosis may be increased. These medications include but are not limited to, Factor IX Complex concentrates, Anti-inhibitor Coagulant concentrates, and hormonal contraceptives [see *Drug Interactions (7.1)*, *Use in Specific Populations (8.3)*].

5.3 Seizures

Tranexamic acid injection may cause seizures, including focal and generalized seizures. The most common setting for tranexamic acid-induced seizures has been during cardiovascular surgery (a setting in which tranexamic acid is not FDA-approved and which uses doses of up to 10-fold higher than the recommended human dose and in patients inadvertently given tranexamic acid via the neuraxial route). Tranexamic acid injection is contraindicated for neuraxial administration (i.e., epidural, intrathecal). Consider dose reduction during surgery and dose adjustments for patients with clinical conditions such as renal dysfunction. Closely monitor the patient during surgery. Consider electroencephalogram (EEG) monitoring for patients with history of seizures or who experience myoclonic movements, twitching, or show evidence of focal seizures.

Discontinue tranexamic acid injection if seizures occur.

5.4 Hypersensitivity Reactions

Cases of hypersensitivity reactions, including anaphylactic reactions, have occurred with use of intravenous tranexamic acid. Discontinue treatment with Tranexamic Acid Injection if serious reaction occurs, provide appropriate medical management, and do not restart treatment. Tranexamic Acid Injection is contraindicated in patients with a history of hypersensitivity to tranexamic acid.

5.5 Visual Disturbances

Although not seen in humans, focal areas of retinal degeneration have been observed in cats and dogs following oral or intravenous tranexamic acid at doses between 250 to 1600 mg/kg/day (1.6 to 22 times the recommended usual human dose based on body surface area) from 6 days to 1 year. No retinal changes have been observed in eye examinations of patients treated with tranexamic acid for up to 8 years. Patients expected to be treated for greater than 3 months may consider ophthalmic monitoring including visual acuity and optical coherence tomography at regular intervals.

Discontinue tranexamic acid injection if changes in ophthalmological examination occurs.

5.6 Dizziness

Tranexamic acid injection may cause dizziness. Concomitant use of other drugs that may also cause dizziness may worsen this effect. Advise patients to avoid driving or using machines until they know how tranexamic acid injection affects them.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Risk of Medication Errors Due to Incorrect Route of Administration [*see Warnings and Precautions (5.1)*]
- Thromboembolic Risk [*see Warnings and Precautions (5.2)*]
- Seizures [*see Warnings and Precautions (5.3)*]
- Hypersensitivity Reactions [*see Warnings and Precautions (5.4)*]
- Visual Disturbances [*see Warnings and Precautions (5.5)*]
- Dizziness [*see Warnings and Precautions (5.6)*]

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of tranexamic acid. 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.

Gastrointestinal disturbances (nausea, vomiting, diarrhea) may occur and may resolve with dose-reduction. Allergic dermatitis and giddiness have been reported. Hypotension has been reported when intravenous injection is too rapid.

Thromboembolic events (e.g., deep vein thrombosis, pulmonary embolism, cerebral thrombosis, acute renal cortical necrosis, and central retinal artery, vein obstruction and cases associated with concomitant use of combination hormonal contraceptives) have been rarely reported in patients receiving tranexamic acid for indications other than hemorrhage prevention in patients with hemophilia. Convulsion, chromatopsia, and visual impairment have also been reported.

Anaphylaxis or anaphylactoid reactions have been reported that are suggestive of a causal relationship.

7 DRUG INTERACTIONS

7.1 Prothrombotic Medical Products

Avoid concomitant use of Tranexamic Acid Injection with medical products that are prothrombotic because concomitant use can further increase the risk of thromboembolic adverse reactions associated with tranexamic acid [see *Warnings and Precautions (5.2), Use in Specific Populations (8.3)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from published studies, case series and case reports with tranexamic acid use in pregnant women in the second and third trimester and at the time of delivery have not clarified whether there is a drug-associated risk of miscarriage or adverse maternal or fetal outcomes. There are 2 (0.02%) infant cases with structural abnormalities that resulted in death when tranexamic acid was used during conception or the first trimester of pregnancy; however, due to other confounding factors the risk of major birth defects with use of tranexamic acid during pregnancy is not clear. Tranexamic acid is known to pass the placenta and appears in cord blood at concentrations approximately equal to maternal concentration (*see Data*).

Reproduction studies performed in mice, rats, and rabbits have not revealed any adverse effects on the fetus due to tranexamic acid administered during organogenesis. Doses examined were multiples of up to 3 times (mouse), 6 times (rat), and 3 times (rabbit) the maximum human dose based on body surface area in the mouse, rat, and rabbit, respectively (*see Data*).

The estimated background risk for 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 the clinically recognized pregnancies is 2-4% and 15-20%, respectively.

It is not known whether tranexamic acid use in pregnant women may cause a drug-associated risk of miscarriage or adverse maternal or fetal outcomes. For decisions regarding the use of tranexamic acid injection during pregnancy, the potential risk of

tranexamic acid injection administration on the fetus should always be considered along with the mother's clinical need for tranexamic acid injection; an accurate risk-benefit evaluation should drive the treating physician's decision.

Data

Human Data

Tranexamic acid passes through the placenta. The concentration in cord blood after an intravenous injection of 10 mg/kg to pregnant women is about 30 mg/L, as high as in the maternal blood.

There were 13 clinical studies that described fetal and/or neonatal functional issues such as low Apgar score, neonatal sepsis, cephalohematoma and 9 clinical studies that discussed alterations to growth including low birth weight and preterm birth at 22-36 weeks of gestation in fetuses and infants exposed to tranexamic acid in-utero.

Animal Data

In embryo-fetal development studies, tranexamic acid was administered to pregnant mice from Gestation Day (GD) 6 through GD 12 and rats from GD 9 through GD 14 at daily doses of 0.3 or 1.5 g/kg. There was no evidence of adverse developmental outcomes in mice and rats at multiple of 3 and 6 times the maximum recommended human dose based on body surface area in the mouse and rat, respectively.

In rabbits, tranexamic acid was administered intravenously at doses of 50, 100, or 200 mg/kg/day or orally at doses of 100, 200, or 400 mg/kg/day from GD 6 through GD 18. There was no evidence of adverse developmental outcomes at dose multiples of 2 or 3 times, respectively, the maximum recommended human dose based on body surface area. Intravenous doses of 200 mg/kg/day showed slightly retarded weight gain in pregnant rabbits.

8.2 Lactation

Risk Summary

Published literature reports the presence of tranexamic acid in human milk. There are no data on the effects of tranexamic acid on the breastfed child or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for tranexamic acid injection and any potential adverse effects on the breastfed child from tranexamic acid injection or from the underlying maternal condition.

8.3 Females and Males of Reproductive Potential

Contraception

Concomitant use of Tranexamic Acid Injection, which is an antifibrinolytic, with hormonal contraceptives may increase the risk for thromboembolic adverse reactions. Advise patients to use an effective alternative (nonhormonal) contraceptive method [see *Warnings and Precautions (5.2), Drug Interactions (7.1)*].

8.4 Pediatric Use

There are limited data concerning the use of tranexamic acid injection in pediatric patients with hemophilia who are undergoing tooth extraction. The limited data suggest that there are no significant pharmacokinetic differences between adults and pediatric patients.

8.5 Geriatric Use

Clinical studies of tranexamic acid injection did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function [see *Dosage and Administration (2.2), Clinical Pharmacology (12.3)*].

8.6 Renal Impairment

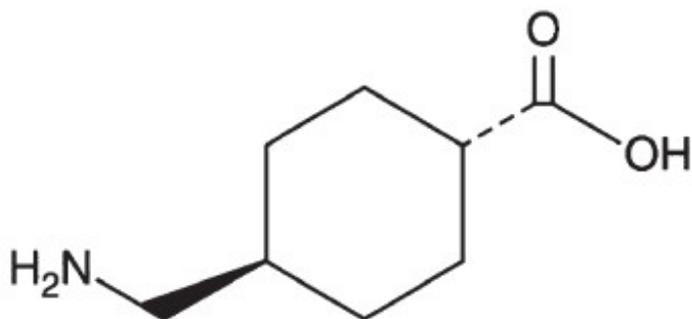
Reduce the dosage of tranexamic acid injection in patients with renal impairment, based on the patient's serum creatinine [see *Dosage and Administration (2.2), Clinical Pharmacology (12.3)*].

10 OVERDOSAGE

Cases of overdosage of Tranexamic Acid Injection have been reported. Based on these reports, symptoms of overdosage may be gastrointestinal, e.g., nausea, vomiting, diarrhea; hypotensive, e.g., orthostatic symptoms; thromboembolic, e.g., arterial, venous, embolic; neurologic, e.g., visual impairment, convulsions, headache, mental status changes; myoclonus; and rash.

11 DESCRIPTION

Tranexamic acid is trans-4-(aminomethyl)cyclohexanecarboxylic acid, an antifibrinolytic agent. Tranexamic acid is a white crystalline powder. The structural formula is



Empirical Formula: C₈H₁₅NO₂ Molecular Weight: 157.2

Each mL of the sterile solution for intravenous injection contains 100 mg tranexamic acid and Water for Injection to 1 mL. The aqueous

solution for injection has a pH of 6.5 to 8.0.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Tranexamic acid is a synthetic lysine amino acid derivative, which diminishes the dissolution of hemostatic fibrin by plasmin. In the presence of tranexamic acid, the lysine receptor binding sites of plasmin for fibrin are occupied, preventing binding to fibrin monomers, thus preserving and stabilizing fibrin's matrix structure.

The antifibrinolytic effects of tranexamic acid are mediated by reversible interactions at multiple binding sites within plasminogen. Native human plasminogen contains 4 to 5 lysine binding sites with low affinity for tranexamic acid ($K_d = 750 \mu\text{mol/L}$) and 1 with high affinity ($K_d = 1.1 \mu\text{mol/L}$). The high affinity lysine site of plasminogen is involved in its binding to fibrin. Saturation of the high affinity binding site with tranexamic acid displaces plasminogen from the surface of fibrin. Although plasmin may be formed by conformational changes in plasminogen, binding to and dissolution of the fibrin matrix is inhibited.

12.2 Pharmacodynamics

Tranexamic acid, in concentrations of 1 mg/mL and 10 mg/mL prolongs the thrombin time. An antifibrinolytic concentration of tranexamic acid remains in different tissues for about 17 hours, and in the serum, up to 7 or 8 hours.

Tranexamic acid in concentrations up to 10 mg/mL blood has no influence on the platelet count, the coagulation time or various coagulation factors in whole blood or citrated blood from healthy subjects.

12.3 Pharmacokinetics

Distribution

The initial volume of distribution is about 9 to 12 liters. The plasma protein binding of tranexamic acid is about 3% at therapeutic plasma levels and seems to be fully accounted for by its binding to plasminogen. Tranexamic acid does not bind to serum albumin.

Elimination

After an intravenous dose of 1 g, the plasma concentration time curve shows a triexponential decay with a half-life of about 2 hours for the terminal elimination phase.

Excretion

Urinary excretion is the main route of elimination via glomerular filtration. Overall renal clearance is equal to overall plasma clearance (110 to 116 mL/min), and more than 95% of the dose is excreted in the urine as unchanged drug. Excretion of tranexamic acid is about 90% at 24 hours after intravenous administration of 10 mg/kg body weight.

Specific Populations

Patients with Renal Impairment

The blood levels of tranexamic acid are increased in patients with renal insufficiency. Urinary excretion following a single intravenous injection of tranexamic acid declines as renal function decreases. Following a single 10 mg/kg intravenous injection of tranexamic acid, the 24-hour urinary fractions of tranexamic acid with serum creatinine concentrations 1.4 – 2.8, 2.8 – 5.7, and greater than 5.7 mg/dL were 51, 39, and 19%, respectively. The 24-hour tranexamic acid plasma concentrations for these patients demonstrated a direct relationship to the degree of renal impairment. Therefore, dose adjustment is needed in patients with renal impairment [see *Dosage and Administration (2.2), Use in Specific Populations (8.6)*].

Drug Interaction Studies

No studies of interactions between Tranexamic Acid Injection and other drugs have been conducted.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Tranexamic acid was not carcinogenic in a 2-year study in rats and mice at oral doses up to 3 and 5.3 g/kg/day, which are approximately 12 and 11 times the maximum recommended human dose based on body surface area, respectively.

Tranexamic acid was not genotoxic in the reverse mutation bacterial (Ames) test, and in vitro and in vivo cytogenetic test.

In a fertility and early embryonic development study, tranexamic acid was administered to male rats as 0.3% and 1% of drug in diet (average doses of 222 and 856 mg/kg/day) or to female rats at dose levels of 0.3% and 1.2% of drug in diet. Tranexamic acid had no effect on fertility or reproductive function of male or female rats at dose multiples of 4 or 5 times the maximum recommended human dose based on body surface area, respectively.

13.2 Animal Toxicology and/or Pharmacology

Nonclinical studies have shown a retinal toxicity associated with tranexamic acid. Toxicity is characterized by retinal atrophy commencing with changes to the retinal pigmented epithelium and progressing to retinal detachment in cats. The toxicity appears to be dose related, and changes are partially reversible at lower doses. Effects were observed in dogs at oral doses of 800 mg/kg/day and higher (multiple of 11 times the maximum human dose based on body surface area), and in cats at 250 mg/kg/day for 14 days (multiple of 1.6 times the maximum human dose based on body surface area). Some fully reversible changes in pigmentation were observed in cats at doses of 125 mg/kg/day (multiple of 0.8 times the maximum human dose based on body surface area). Studies suggest that the underlying mechanism may be related to a transient retinal ischemia at high exposures, linked to the known sympathomimetic effect of high plasma exposures of tranexamic acid.

16 HOW SUPPLIED/STORAGE AND HANDLING

Tranexamic acid injection is a clear and colorless solution supplied in the following presentations:

Tranexamic Acid Injection 1,000 mg/10 mL (100 mg/mL)	
NDC 23155-909-41	10 x 10 mL single-dose ampules
Tranexamic Acid Injection 1,000 mg/10 mL (100 mg/mL)	
NDC 23155-910-41	10 x 10 mL single-dose vials

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Thromboembolic Risk

Inform patients that tranexamic acid injection may increase the risk of venous and arterial thrombosis or thromboembolism and to contact their healthcare provider for any signs or symptoms suggestive of thromboembolism.

Advise patients using hormonal contraception that combined use with tranexamic acid injection may increase the risk for thromboembolic adverse reactions and to use effective alternative (nonhormonal) contraception during therapy with tranexamic acid injection [see *Warnings and Precautions (5.1)*, *Drug Interactions (7.1)*, *Use in Specific Populations (8.3)*].

Seizures

Inform patients that tranexamic acid injection may cause seizures and to contact their healthcare provider for any signs or symptoms suggestive of seizures [see *Warnings and Precautions (5.3)*].

Hypersensitivity Reactions

Inform patients that tranexamic acid injection may cause hypersensitivity reactions and to contact their healthcare provider for any signs or symptoms of hypersensitivity reactions [see *Warnings and Precautions (5.4)*].

Visual Disturbances

Inform patients that tranexamic acid injection can cause visual disturbance and that they should report any eye symptoms or change in their vision to their healthcare provider and to follow-up with an ophthalmologist for a complete ophthalmologic evaluation, including dilated retinal examination of the retina [see *Warnings and Precautions (5.5)*].

Risk of Driving and Operating Machinery

Inform patients that tranexamic acid injection may cause dizziness, and that the patient should be cautioned about driving, operating machinery, or performing hazardous tasks while taking tranexamic acid injection [see *Warnings and Precautions (5.6)*].

To Open Ampule:

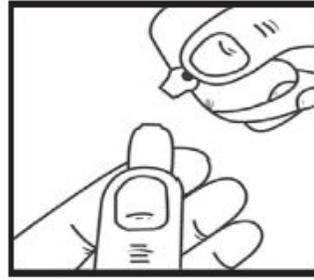
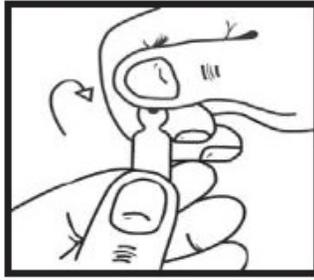


Figure 1

Figure 2

Figure 3

Figure 4

The glass ampules have a safe-opening procedure and must be opened as follows:

- Identify the white dot and the small score line positioned below it (Figure 1).
- Hold the bottom part of the ampule with the non-dominant hand. Place the index finger of your dominant hand behind the neck of the ampule opposite to the score line. Put the thumb of the dominant hand on the white dot. (Figure 2).
- Then apply pressure to the white dot with the thumb while snapping away from the score line (Figure 3)
- The ampule will open correctly (Figure 4)

Manufactured by:

Bioindustria Laboratorio Italiano Medicinali S.p.A.
Via De Ambrosiis 2, 15067, Novi Ligure (AL), Italy

Manufactured for:

Avet Pharmaceuticals Inc.
East Brunswick, NJ 08816
1-866-901-DRUG (3784)



Revised: 09/2025

Item Code M2K224/1

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Container Label - Ampule

NDC 23155-909-31

100 mg/mL

10 mL Ampule

NDC 23155-909-31

**Tranexamic
Acid Injection**
1,000 mg / 10 mL
(100 mg/mL)

 Avet Pharma®

Intravenous Use Only

Single-Dose Ampule
Discard Unused Portion

Mfd. for Avet Pharmaceuticals Inc.

East Brunswick, NJ 08816

1-866-901-DRUG (3784) Rx only

Made in Italy Rev. 10/2024

M2AT24
9
3 23155-909-31
N 3



Carton Label - Ampule

NDC 23155-909-41

100 mg/mL

8 1 7-606-55152 3 N



ITALGRAPHICA - AL

10 x 10 mL Ampule

NDC 23155-909-41

Tranexamic Acid Injection

1,000 mg / 10 mL

(100 mg/mL)

Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

DOSAGE AND USE:

See accompanying prescribing information.
Each ampule contains 1g tranexamic acid.
Single-Dose Ampules, Preservative free.

Manufactured by:
**Bioindustria Laboratorio
Italiano Medicinali S.p.A.**
Via De Ambrosiis 2,
15067, Novi Ligure (AL), Italy

Manufactured for:
Avet Pharmaceuticals Inc.
East Brunswick, NJ 08816
1-866-901-DRUG (3784)
Rev. 10/2024



Rx only

10 x 10 mL Ampule

NDC 23155-909-41

Tranexamic Acid Injection

1,000 mg / 10 mL

(100 mg/mL)

Rx only

M37174

10 x 10 mL Ampule

NDC 23155-909-41

Tranexamic Acid Injection

1,000 mg / 10 mL

(100 mg/mL)

Intravenous Use Only

Single-Dose Ampules

Discard Unused Portion



Rx only

Tranexamic Acid Injection
1,000 mg / 10 mL
(100 mg/mL)

NDC 23155-909-41

Rx only

20
Matrix

NDC: 23155-909-41
SERIAL: XXXXX
LOT: XXXXX
EXP: YYYY-MM-DD

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Container Label - Vial

NDC 23155-910-31

100 mg/mL

<p>NDC 23155-910-31 10 mL Vial</p> <p>Tranexamic Acid Injection</p> <p>1,000 mg / 10 mL (100 mg/mL)</p> <p>Intravenous Use Only</p> <p> Avet Pharma® Rx only</p>	<p>Single-Dose Vial Preservative free Discard Unused Portion</p> <p>Mfd. for Avet Pharmaceuticals Inc. East Brunswick, NJ 08816 1-866-901-DRUG (3784)</p> <p>Made in Italy</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	<p>Rev. 10/2024</p> <p>M2AT25</p>  <p>N 3 23155-910-31 5</p>
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Carton Label - Vial

NDC 23155-910-41

100 mg/mL



TRANEXAMIC ACID

tranexamic acid injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:23155-909
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TRANEXAMIC ACID (UNII: 6T84R30KC1) (TRANEXAMIC ACID - UNII:6T84R30KC1)	TRANEXAMIC ACID	100 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:23155-909-41	10 in 1 CARTON	11/25/2024	
1		10 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202436	11/25/2024	

TRANEXAMIC ACID

tranexamic acid injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:23155-910
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TRANEXAMIC ACID (UNII: 6T84R30KC1) (TRANEXAMIC ACID - UNII:6T84R30KC1)	TRANEXAMIC ACID	100 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:23155-910-41	10 in 1 CARTON	11/25/2024	
1		10 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	ANDA202436	11/25/2024	

Labeler - Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc. (780779901)

Registrant - Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc. (780779901)

Establishment

Name	Address	ID/FEI	Business Operations
Bioindustria Laboratorio Italiano Medicinali S.p.A		459042487	manufacture(23155-909, 23155-910) , analysis(23155-909, 23155-910)

Revised: 11/2025

Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc.