

HIGHLIGHTS OF PRESCRIBING INFORMATION:

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

Asclera (polidocanol) Injection, for intravenous use Initial U.S. Approval: 2010

RECENT MAJOR CHANGES

Warnings and Precautions, Venous Thrombosis and Pulmonary Embolism (5.2) -----02/2018

Warnings and Precautions, Arterial Embolism (5.3) -----02/2018

Warnings and Precautions, Tissue Ischemia and Necrosis (5.4) ----02/2018

INDICATIONS AND USAGE

Asclera (polidocanol) is a sclerosing agent indicated to treat uncomplicated spider veins (varicose veins ≤1 mm in diameter) and uncomplicated reticular veins (varicose veins 1 to 3 mm in diameter) in the lower extremity. It has not been studied in larger varicose veins > 3 mm in diameter. (1)

DOSAGE AND ADMINISTRATION

For intravenous use only. The strength of the solution and the volume injected depend on the size and extent of the varicose veins. Extensive varicosities may require multiple treatment sessions. (2)

Spider veins (varicose veins ≤1 mm in diameter): Use Asclera 0.5%. (2)

Reticular veins (varicose veins 1 to 3 mm in diameter): Use Asclera 1%. (2)

Use 0.1 to 0.3 mL for each injection into each varicose vein. The maximum recommended volume per treatment session is 10 mL. (2)

DOSAGE FORMS AND STRENGTHS

0.5% and 1% solution in 2 mL glass ampules. (3)

CONTRAINDICATIONS

Known allergies to polidocanol. (4)

Patients with acute thromboembolic diseases. (4)

WARNINGS AND PRECAUTIONS

- Be prepared to treat anaphylaxis. (5.1)
- Venous Thrombosis and Pulmonary Embolism. (5.2)
- Arterial Embolism. (5.3)
- Tissue ischemia and necrosis: Do not inject intra-arterially. (5.4)

ADVERSE REACTIONS

The most common adverse reactions occurring at least 3% more frequently than on placebo are mild local reactions at the site of injection. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Merz North America, Inc. at 1-844-469-6379 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labelling.

Revised: 02/2018

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Asclera[®] (polidocanol) is indicated to sclerose uncomplicated spider veins (varicose veins ≤ 1 mm in diameter) and uncomplicated reticular veins (varicose veins 1 to 3 mm in diameter) in the lower extremity. Asclera has not been studied in varicose veins more than 3 mm in diameter.

2 DOSAGE AND ADMINISTRATION

For intravenous use only. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not use if particulate matter is seen or if the contents of the vial are discolored or if the vial is damaged in any way.

For spider veins (varicose veins ≤ 1 mm in diameter), use Asclera 0.5%. For reticular veins (varicose veins 1 to 3 mm in diameter), use Asclera 1%. Use 0.1 to 0.3 mL per injection and no more than 10 mL per session.

Use a syringe (glass or plastic) with a fine needle (typically, 26- or 30-gauge). Insert the needle tangentially into the vein and inject the solution slowly while the needle is still in the vein. Apply only gentle pressure during injection to prevent vein rupture. After the needle has been removed and the injection site has been covered, apply compression in the form of a stocking or bandage. After the treatment session, encourage the patient to walk for 15 to 20 minutes. Keep the patient under observation to detect any anaphylactic or allergic reaction (see Warnings and Precautions [5]).

Maintain compression for 2 to 3 days after treatment of spider veins and for 5 to 7 days for reticular veins. For extensive varicosities, longer compression treatment with compression bandages or a gradient compression stocking of a higher compression class is recommended. Post-treatment compression is necessary to reduce the risk of deep vein thrombosis.

Repeat treatments may be necessary if the extent of the varicose veins requires more than 10 mL. These treatments should be separated by 1 to 2 weeks.

Small intravaricose blood clots (thrombi) that develop may be removed by stab incision and thrombus expression (microthrombectomy).

3 DOSAGE FORMS AND STRENGTHS

Asclera is available as a 0.5% and 1% solution in 2 mL glass ampules.

4 CONTRAINDICATIONS

Asclera is contraindicated for patients with known allergy (anaphylaxis) to polidocanol and patients with acute thromboembolic diseases.

5 WARNINGS AND PRECAUTIONS

5.1 Anaphylaxis

Severe allergic reactions have been reported following polidocanol use, including anaphylactic reactions, some of them fatal. Severe reactions are more frequent with use of larger volumes (> 3 mL). The dose of polidocanol should therefore be minimized. Be prepared to treat anaphylaxis appropriately.

Severe adverse local effects, including tissue necrosis, may occur following extravasation; therefore, care should be taken in intravenous needle placement and the smallest effective volume at each injection site should be used.

After the injection session is completed, apply compression with a stocking or bandage, and have the patient walk for 15-20 minutes. Keep the patient under supervision during this period to treat any anaphylactic or allergic reaction (*see Dosage and Administration [2]*).

5.2 Venous Thrombosis and Pulmonary Embolism

Asclera can cause venous thrombosis and subsequent pulmonary embolism or other thrombotic events. Follow administration instructions closely and monitor for signs of venous thrombosis after treatment. Patients with reduced mobility, history of deep vein thrombosis or pulmonary embolism, or recent (within 3 months) major surgery, prolonged hospitalization or pregnancy are at increased risk for developing thrombosis.

5.3 Arterial Embolism

Stroke, transient ischemic attack, myocardial infarction, and impaired cardiac function have been reported in close temporal relationship with polidocanol administration. These events may be caused by air embolism when using the product foamed with room air (high nitrogen concentration) or thromboembolism. The safety and efficacy of polidocanol foamed with room air has not been established and its use should be avoided.

5.4 Tissue Ischemia and Necrosis

Intra-arterial injection or extravasation of polidocanol can cause severe necrosis, ischemia or gangrene. Care should be taken in intravenous needle placement and the smallest effective volume at each injection site should be used. After the injection session is completed, apply compression with a stocking or bandage and have patients walk for 15-20 minutes. If intra-arterial injection of polidocanol occurs, consult a vascular surgeon immediately.

6 ADVERSE REACTIONS

6.1 Clinical Study 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.

In 5 controlled randomized clinical trials, Asclera has been administered to 401 patients with small or very small varicose veins (reticular and spider veins) and compared with another sclerosing agent and with placebo. Patients were 18 to 70 years old. The patient population was predominately female and consisted of Caucasian and Asian patients.

Table 1 shows adverse events more common with Asclera or sodium tetradecyl sulfate (STS) 1% than with placebo by at least 3% in the placebo- controlled EASI study (*see Clinical Studies [14]*). All of these were injection site reactions and most were mild.

Table 1: Adverse Reactions in EASI-study

	ASCLERA (180 patients)	STS 1% (105 patients)	Placebo (53 patients)
Injection site haematoma	42%	65%	19%
Injection site irritation	41%	73%	30%
Injection site discoloration	38%	74%	4%
Injection site pain	24%	31%	9%
Injection site pruritus	19%	27%	4%
Injection site warmth	16%	21%	6%
Neovascularisation	8%	20%	4%
Injection site thrombosis	6%	1%	0%

Ultrasound examinations at one week (± 3 days) and 12 weeks (± 2 weeks) after treatment did not reveal deep vein thrombosis in any treatment group.

6.2 Post-marketing Safety Experience

The following adverse reactions have been reported during use of polidocanol in world-wide experience; in some of these cases these adverse events have been serious or troublesome. Because these reactions are reported voluntarily from a population of uncertain size and without a control group, it is not possible to estimate their frequency reliably or to establish a causal relationship to drug exposure.

Immune system disorders: Anaphylactic shock, angioedema, urticaria generalized, asthma

Nervous system disorders: Cerebrovascular accident, migraine, paresthesia (local), loss of consciousness, confusional state, dizziness

Cardiac disorders: Cardiac arrest, palpitations

Vascular disorders: Deep vein thrombosis, pulmonary embolism, syncope vasovagal, circulatory collapse, vasculitis

Respiratory, thoracic and mediastinal disorders: Dyspnea

Skin and subcutaneous tissue disorders: Skin hyperpigmentation, dermatitis allergic, hypertrichosis (in the area of sclerotherapy)

General disorders and injection site conditions: Injection site necrosis, pyrexia, hot flush

Injury, poisoning and procedural complications: Nerve injury

7 DRUG INTERACTIONS

No drug-drug interactions have been studied with Asclera.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C. Polidocanol has been shown to have an embryocidal effect in rabbits when given in doses approximately equal (on the basis of body surface area) to the human dose. This effect may have been secondary to maternal toxicity. There are no adequate and well-controlled studies in pregnant women. Asclera should not be used during pregnancy.

Animal Studies

Developmental reproductive toxicity testing was performed in rats and rabbits with intravenous administration. Polidocanol induced maternal and fetal toxicity in rabbits, including reduced mean fetal weight and reduced fetal survival, when administered during gestation days 6-20 at doses of 4 and 10 mg/kg, but it did not cause skeletal or visceral abnormalities. No adverse maternal or fetal effects were observed in rabbits at a dose of 2 mg/kg. No evidence of teratogenicity or fetal toxicity was observed in rats dosed during gestation days 6-17 with doses up to 10 mg/kg. Polidocanol did not affect the ability of rats to deliver and rear pups when administered intermittently by intravenous injection from gestation day 17 to post-partum day 21 at doses up to 10 mg/kg.

Human Studies

There are no adequate and well-controlled studies on the use of Asclera in pregnant women.

8.2 Labor and Delivery

The effects of Asclera on labor and delivery in pregnant women are unknown.

8.3 Nursing Mothers

It is not known whether polidocanol is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants, avoid administering to a nursing woman.

8.4 Pediatric Use

The safety and effectiveness of Asclera in pediatric patients have not been established.

8.5 Geriatric Use

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

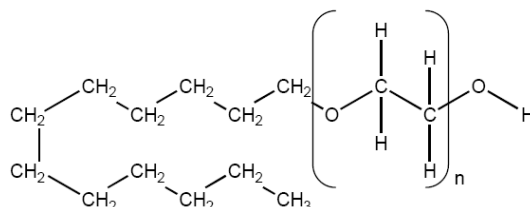
10 OVERDOSAGE

Overdose may result in a higher incidence of localized reactions such as necrosis.

11 DESCRIPTION

Asclera is a sterile, nonpyrogenic, and colorless to faintly greenish-yellow solution of polidocanol for intravenous use as a sclerosing agent.

The active ingredient, polidocanol is a non-ionic detergent, consisting of two components, a polar hydrophilic (dodecyl alcohol) and an apolar hydrophobic (polyethylene oxide) chain. Polidocanol has the following structural formula:



$C_{12}H_{25}(OCH_2CH_2)_nOH$ Polyethylene glycol monododecyl ether Mean extent of polymerization (n) : Approximately 9 Mean molecular weight : Approximately 600

Each mL contains 5 mg (0.5%) or 10 mg (1.0%) polidocanol in water for injection with 5% (v/v) ethanol at pH 6.5-8.0; disodium hydrogen phosphate dihydrate, potassium dihydrogen phosphate are added for pH adjustment.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The active ingredient of Asclera is polidocanol.

Polidocanol is a sclerosing agent that locally damages the endothelium of blood vessels. When injected intravenously, polidocanol induces endothelial damage. Platelets then aggregate at the site of damage and attach to the venous wall. Eventually, a dense network of platelets, cellular debris, and fibrin occludes the vessel. Finally, the occluded vein is replaced with connective fibrous tissue.

12.2 Pharmacodynamics

Polidocanol has a concentration- and volume-dependent damaging effect on the endothelium of blood vessels.

12.3 Pharmacokinetics

During the major effectiveness study (EASI-trial), scheduled blood samples were taken from a sub-group of 22 patients to measure plasma levels of polidocanol after Asclera treatment of spider and reticular veins. Low systemic blood levels of polidocanol were seen in some patients.

The mean $t_{1/2}$ of polidocanol in 4 patients with evaluable data receiving 4.5 -18.0 mg was 1.5 h.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies to evaluate carcinogenic potential have not been conducted with polidocanol. Polidocanol was negative in bacterial reverse mutation assays in Salmonella and E. coli, and in a micronucleus assay conducted in mice. Polidocanol induced numerical chromosomal aberrations in cultured newborn Chinese hamster lung fibroblasts in the absence of metabolic activation.

Polidocanol did not affect reproductive performance (fertility) of rats when administered intermittently at dosages up to 10 mg/kg (approximately equal to the maximum human dose on the basis of body surface area).

14 CLINICAL STUDIES

Asclera was evaluated in a multicenter, randomized, double-blind, placebo- and comparator-controlled trial (EASI-study) in patients with spider or reticular varicose veins. A total of 338 patients were treated with Asclera [0.5% for spider veins (n=94), 1% for reticular veins (n=86)], sodium tetradecyl sulfate (STS) 1% (n=105), or placebo (0.9% isotonic saline solution) (n=53) for either spider or reticular veins. Patients were predominately female, ranging in age from 19 to 70 years. All of them received an intravenous injection in the first treatment session; repeat injections were given three and six weeks later if the previous injection was evaluated as unsuccessful (defined as 1, 2 or 3 on a 5-point scale, see below). Patients returned at 12 and 26 weeks after the last injection for final assessments.

The primary effectiveness endpoint was improvement of veins judged by a blinded panel. Digital images of the selected treatment area were taken prior to injection, compared with those taken at 12 weeks post-treatment, and rated on a 5-point scale (1 = worse than before, 2 = same as before, 3 = moderate improvement, 4 = good improvement, 5 = complete treatment success); results are shown in Table 2.

Table 2: Improvement of veins in digital photographs after 12 weeks and 26 weeks

Treatment Group	Polidocanol (n=155)	STS (n=105)	Placebo (n=53)
<i>Digital Photograph Scores at 12 weeks</i>			
Mean ± SD	4.5* ± 0.7	4.5*± 0.7	2.2 ± 0.7
<i>Digital Photograph Scores at 26 weeks</i>			
Mean ± SD	4.5* ± 0.7	4.5*± 0.8	2.2 ± 0.7

*p <0.0001 compared to placebo (Wilcoxon-Mann-Whitney test)

The secondary efficacy criterion was the rate of treatment success, pre-defined as a score of 4 or 5 with patients scoring 1, 2, or 3 considered treatment failures; results are shown in Table 3.

Table 3: Treatment success rates at 12 weeks and 26 weeks

Treatment success?*	Polidocanol (n=155)	STS (n=105)	Placebo (n=53)
<i>At 12 weeks (Visit 4)</i>			
Yes	95%**	92%**	8%
No	5%	8%	92%
Missing	0.6%	0%	0%
<i>At 26 weeks (Visit 5)</i>			
Yes	95%**	91%**	6%
No	5%	9%	94%

*Treatment success: Yes= Grade 4 to 5, No= Grade 1 to 3; derived from median of evaluation; **p<0.0001 compared to placebo.

At 12 and 26 weeks, patients' judgement of the results was assessed by showing them the digital images of their treatment area taken at baseline and asking them to rate their satisfaction with their treatment using a verbal rating scale (1 = very unsatisfied; 2 = somewhat unsatisfied; 3 = slightly satisfied; 4 = satisfied and 5 = very satisfied); results are shown in Table 4.

Table 4: Patient satisfaction after 12 weeks and 26 weeks

	Polidocanol (N=155)	STS (N=105)	Placebo (N=53)
<i>Patient satisfaction with treatment after 12 weeks (Visit 4)</i>			
Satisfied or very satisfied	87%*	64%	14%
<i>Patient satisfaction with treatment after 26 weeks (Visit 5)</i>			
Satisfied or very satisfied	84%*	63%	16%

*p <0.0001 compared to STS and placebo

16 HOW SUPPLIED/STORAGE AND HANDLING

Asclera is supplied in single-use, preservative free ampules in the following packages:

NDC 46783-121-52 Five 0.5% ampules (2 mL)
NDC 46783-221-52 Five 1.0% ampules (2 mL)

Each ampule is intended for immediate use in a single patient. Each unopened ampule is stable up to three years.

Store at 15-30°C; (59-86°F).

17 PATIENT COUNSELING INFORMATION

Advise the patient to wear compression stockings or support hose on the treated legs continuously for 2 to 3 days and for 2 to 3 weeks during the daytime. Compression stockings or support hose should be thigh or knee high depending upon the area treated in order to provide adequate coverage.

Advise the patient to walk for 15 to 20 minutes immediately after the procedure and daily for the next few days.

For two to three days following treatment, advise the patient to avoid heavy exercise, sunbathing, long plane flights, and hot baths or sauna.

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