

**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](http://www.fda.gov/medwatch).  
See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labelling.

Revised: 02/2018

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

## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

Asclera® (polidocanol) is indicated to sclerose uncomplicated spider veins (varicose veins  $\leq 1$  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  $\leq 1$  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**

	<b>ASCLERA (180 patients)</b>	<b>STS 1% (105 patients)</b>	<b>Placebo (53 patients)</b>
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 ( $\pm 3$  days) and 12 weeks ( $\pm 2$  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:



**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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