

## **TRUBREXA- lidocaine and capsaicin patch**

### **Strand Health Group**

*Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.*

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### **Trubrexal Transdermal Patch**

### **Trubrexal™ Transdermal Patch**

### **Extended Time Release**

**Lidocaine 4.75%**

**Capsaicin 0.025%**

**Rx Only**

## **1. INDICATIONS & USAGE**

Trubrexal™ Transdermal Patch is indicated in adults over the age of 12 years old for the treatment of acute and chronic pain in muscles and joints associated with muscle soreness, strains, sprains, arthritis, simple backache, muscle stiffness, and more.

## **2. DOSAGE & ADMINISTRATION**

### *2.1 Important Dosage and Administration Instructions*

- Unintended exposure to capsaicin can cause severe irritation of the eyes, mucous membranes, respiratory tract, and skin in healthcare providers and others.
- Because unintended exposure to capsaicin can cause severe irritation of eyes, mucous membranes, respiratory tract, and skin, when administering Trubrexal™ Transdermal Patch it is important to follow these procedures:
  - Keep Trubrexal™ Transdermal Patch in the sealed pouch until immediately before use.
  - Use Trubrexal™ Transdermal Patch only on dry, intact (unbroken) skin.
  - During administration, avoid unnecessary contact with any items in the room, including items that the patient may later have contact with, such as horizontal surfaces and bedsheets.
  - Immediately after use, clean all areas of skin that had contact with Trubrexal™ Transdermal Patch.
  - Ensure all used and unused pieces Trubrexal™ Transdermal Patch are properly disposed of.

### *2.2 Dosing and Instructions for Use*

- Tear open pouch bag and remove one patch. Place remaining patches back in pouch bag and seal the pouch bag closed.
- Peel the clear plastic film away and apply Trubrexal™ Transdermal Patch to intact skin to cover the most painful area. Apply one patch per day for up to 12 hours within a 24 hour period (12 on, 12 off). One single Trubrexal™ Transdermal Patch

may be used twice per day. To re-use after first application, place the clear plastic film back on to medicated hydrogel pad.

- Clothing may be worn over the area of application.
- Wash hands with soap and water after handling the patch.
- If irritation or a burning sensation occurs during application, remove the patch and do not reapply until the irritation subsides.
- When Trubrex<sup>TM</sup> Transdermal Patch is used concomitantly with other products containing local anesthetic agents, the amount absorbed from all formulations must be considered.

### **3. DOSAGE FORMS & STRENGTHS**

Trubrex<sup>TM</sup> Transdermal Patch contains 4.75% lidocaine and 0.025% capsaicin. Each patch is 2 in x 2 in (5.08 cm x 5.08 cm) and consists of an adhesive side containing the active/inactive ingredients and an outer surface backing layer. The adhesive side is covered with a removable, clear, unprinted, plastic film. The outer surface of the backing layer is imprinted with the Trubrex<sup>TM</sup> Transdermal Patch logo.

### **4. CONTRAINDICATIONS**

Trubrex<sup>TM</sup> Transdermal Patch is contraindicated in patients with a known history of sensitivity to local anesthetics of the amide type, or to any other component of the product.

### **5. WARNINGS, PRECAUTIONS & ADVERSE REACTIONS**

#### *5.1 Risk of Methemoglobinemia*

Inform patients that use of local anesthetics may cause methemoglobinemia, a serious condition that must be treated promptly. Advise patients or caregivers to stop use and seek immediate medical attention if they or someone in their care experience the following signs or symptoms: pale, gray, or blue colored skin (cyanosis); headache; rapid heart rate; shortness of breath; fatigue; or lightheadedness.

Cases of methemoglobinemia have been reported in association with local anesthetic use. Although all patients are at risk for methemoglobinemia, patients with glucose-6-phosphate dehydrogenase deficiency, congenital or idiopathic methemoglobinemia, cardiac or pulmonary compromise, infants under 6 months of age, and concurrent exposure to oxidizing agents or their metabolites are more susceptible to developing clinical manifestations of the condition. If local anesthetics must be used in these patients, close monitoring for symptoms and signs of methemoglobinemia is recommended.

Signs of methemoglobinemia may occur immediately or may be delayed some hours after exposure and are characterized by cyanotic skin discoloration and/or abnormal coloration of the blood. Methemoglobin levels may continue to rise; therefore, immediate treatment is required to avert more serious central nervous system and cardiovascular adverse effects, including seizures, coma, arrhythmias, and death. Discontinue Trubrex<sup>TM</sup> Transdermal Patch and any other oxidizing agents. Depending on the severity of the signs and symptoms, patients may respond to supportive care, i.e., oxygen therapy,

hydration, etc. A more severe clinical presentation may require treatment with methylene blue, exchange transfusion, or hyperbaric oxygen.

### *5.2 Excessive Dosing*

Excessive dosing by applying Trubrex<sup>TM</sup> Transdermal Patch to larger areas or for longer than the recommended wearing time could result in increased absorption of lidocaine and capsaicin and high blood concentrations. Lidocaine toxicity could be expected at lidocaine blood concentrations above 5 mcg/mL. The blood concentration of lidocaine is determined by the rate of systemic absorption and elimination. Longer duration of application, application of more than the recommended number of patches, smaller patients, or impaired elimination may all contribute to increasing the blood concentration of lidocaine and capsaicin.

### *5.3 Severe Irritation with Unintended Capsaicin Exposure*

Unintended exposure to capsaicin can cause severe irritation of eyes, mucous membranes, respiratory tract, and skin.

#### Eye and Mucous Membrane Exposure

- Do not apply Trubrex<sup>TM</sup> Transdermal Patch to the face, eyes, mouth, nose, or scalp to avoid risk of exposure to eyes or mucous membranes.
- Accidental exposure to the eyes and mucous membranes can occur from touching Trubrex<sup>TM</sup> Transdermal Patch or items exposed to capsaicin, then touching the eyes and mucous membranes.
- If irritation of eyes or mucous membranes occurs, remove the affected individual from the vicinity of Trubrex<sup>TM</sup> Transdermal Patch and flush eyes and mucous membranes with cool water.

#### Respiratory Tract Exposure

- Inhalation of airborne capsaicin can result in coughing or sneezing. If irritation of airways occurs, remove the affected individual from the vicinity of Trubrex<sup>TM</sup> Transdermal Patch. Provide supportive medical care if shortness of breath develops.

#### Skin Exposure

- Thoroughly clean all areas that had contact with Trubrex<sup>TM</sup> Transdermal Patch and properly dispose of all patch components.

### *5.4 Application-Associated Pain*

During or immediately after treatment with Trubrex<sup>TM</sup> Transdermal Patch, the skin at the site of application may develop blisters, bruising, burning sensation, depigmentation, dermatitis, discoloration, edema, erythema, exfoliation, irritation, papules, petechia, pruritus, vesicles, or may be the locus of abnormal sensation. These reactions are generally mild and transient, resolving spontaneously within a few minutes to hours.

### *5.5 Increase in Blood Pressure*

Patient with unstable or poorly controlled hypertension, or a recent history of cardiovascular or cerebrovascular events, may be at increased risk of adverse cardiovascular effects. Consider these factors prior to initiating Trubrex<sup>TM</sup> Transdermal Patch treatment. Monitor blood pressure periodically during and following the treatment procedure and provide adequate support for treatment-related pain.

### *5.6 Sensory Function*

Decreases in sensory functions are generally minor and temporary (including to thermal and other harmful stimuli). All patients with pre-existing sensory deficits should be clinically assessed for signs of sensory deterioration or loss prior to each prescription of Trubrex<sup>TM</sup> Transdermal Patch. If sensory deterioration or loss is detected or pre-existing sensory deficit worsens, continued use of Trubrex<sup>TM</sup> Transdermal Patch treatment should be reconsidered.

## *5.7 Precautions*

### Allergic Reactions

Allergic and anaphylactoid reactions associated with lidocaine can occur. They are characterized by angioedema, bronchospasm, dermatitis, dyspnea, hypersensitivity, laryngospasm, pruritus, chock, and urticaria. If they occur, they should be managed by conventional means. Patients allergic to para-aminobenzoic acid derivatives (procaine, tetracaine, benzocaine, etc.) have not shown cross-sensitivity to lidocaine. However, Trubrex<sup>TM</sup> Transdermal Patch should be used with caution in patients with a history of drug sensitivities, especially if the etiologic agent is uncertain.

### External Heat Sources

Placement of external heat sources, such as heating pads or electric blankets, over Trubrex<sup>TM</sup> Transdermal Patch is not recommended.

### Eye Exposure

The contact of Trubrex<sup>TM</sup> Transdermal Patch with eyes should be avoided based on finding from previous studies with use of similar products. If eye contact occurs, immediately wash out the eye with water and saline and protect the eye until sensation returns.

### Hepatic Disease

Patients with severe hepatic disease are at greater risk of developing toxic blood concentrations of lidocaine, because of their inability to metabolize lidocaine normally.

### Non-Intact Skin

Trubrex<sup>TM</sup> Transdermal Patch is only recommended for use on intact skin. Application to broken or inflamed skin may result in increased irritation and/or increased absorption of ingredients.

## *5.8 Other Adverse Events*

Due to the nature and limitation of spontaneous reports in postmarketing surveillance, causality has not been established for additional reported adverse events including: asthenia, confusion, disorientation, dizziness, headache, hyperesthesia, hypoesthesia, lightheadedness, metallic taste, nausea, nervousness, pain exacerbated, paresthesia, somnolence, taste alteration, vomiting, visual disturbances such as blurred vision, flushing, tinnitus, and tremor.

## *5.9 Systemic (Dose-Related) Reactions*

Systemic adverse reactions following appropriate use of Trubrex<sup>TM</sup> Transdermal Patch are unlikely due to the small dose absorbed. Systemic adverse effects of lidocaine are similar in nature to those observed with other amide local anesthetic agents, including CNS excitation and/or depression (light headedness, nervousness, apprehension,

euphoria, confusion, dizziness, drowsiness, tinnitus, blurred or double vision, vomiting, sensations of heat, cold, or numbness, twitching tremors, convulsions, unconsciousness, respiratory depression, and arrest). Excitatory CNS reactions may be brief or not occur at all, in which case the first manifestations may include bradycardia, hypotension, and cardiovascular collapse leading to arrest.

## 6. DRUG INTERACTIONS

### Antiarrhythmic Drugs

Trubrex<sup>TM</sup> Transdermal Patch should be used with caution in patients receiving Class I antiarrhythmic drugs (such as tocainide and mexiletine) since the toxic effects are additive and potentially synergistic.

### Local Anesthetics

When Trubrex<sup>TM</sup> Transdermal Patch is used concomitantly with other products containing local anesthetic agents, the amount absorbed from all formulations must be considered.

### Drugs That May Cause Methemoglobinemia

Patients who are administered local anesthetics are at increased risk of developing methemoglobinemia when concurrently exposed to the following drugs, which could include other local anesthetics:

**Nitrates/Nitrites** (nitric oxide, nitroglycerin, nitroprusside, nitrous oxide)

**Local anesthetics** (benzocaine, bupivacaine, lidocaine, prilocaine, procaine, tetracaine)

**Antineoplastic Agents** (cyclophosphamide, flutamide, hydroxyurea, ifosfamide, rasburicase)

**Antibiotics** (dapson, nitrofurantoin, para-aminosalicylic acid, sulfonamides)

**Antimalarials** (chloroquine, primaquine)

**Anticonvulsants** (Phenobarbital, phenytoin, sodium valproate)

**Other Drugs** (acetaminophen, metoclopramide, quinine, sulfasalazine)

## 7. USE IN SPECIFIC POPULATIONS

### *7.1 Pregnancy*

Trubrex<sup>TM</sup> Transdermal Patch has not been studied in pregnancy. Maternal use is not expected to result in fetal exposure. Animal studies have shown no adverse effects when lidocaine and capsaicin are administered and absorbed. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, Trubrex<sup>TM</sup> Transdermal Patch should only be used during pregnancy if clearly needed or advised by a healthcare professional. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes.

### *7.2 Lactation*

Trubrex<sup>TM</sup> Transdermal Patch has not been studied in nursing mothers. Lidocaine is excreted in human milk, and the milk:plasma ratio of lidocaine is 0.4. Capsaicin is negligibly absorbed systemically by the mother following topical administration of Trubrex<sup>TM</sup> Transdermal Patch. Caution should be exercised when Trubrex<sup>TM</sup> Transdermal Patch is administered to a nursing woman. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Trubrex<sup>TM</sup> Transdermal Patch and any potential adverse effects on the breastfed infant.

### *7.3 Pediatric Use*

Safety and effectiveness in pediatric patients under the age of 12 have not been studied or established.

### *7.4 Geriatric Use*

Safety and effectiveness are similar in geriatric patients and younger patients. No dose adjustments are required in geriatric patients.

## **8. OVERDOSAGE**

Lidocaine overdose from cutaneous absorption is rare but could occur. If there is any suspicion of lidocaine overdose, drug blood concentration should be checked. The management of overdose includes close monitoring, supportive care, and symptomatic treatment. Dialysis is of negligible value in the treatment of acute overdose with lidocaine. In the absence of massive topical overdose or oral ingestion, evaluation of symptoms of toxicity should include consideration of other etiologies for the clinical effects, or overdosage from other sources of lidocaine or other local anesthetics. There is no specific antidote for overdose with capsaicin. In case of suspected overdose, remove Trubrex<sup>TM</sup> Transdermal Patch and gently wash the area with soap and water. Use supportive measures and treat symptoms as clinically warranted.

## **9. DESCRIPTION**

Trubrex<sup>TM</sup> Transdermal Patch is comprised of an adhesive material containing 4.75% lidocaine and 0.025% capsaicin. Each patch is 2 in x 2 in (5.08 cm x 5.08 cm) and consists of an adhesive side containing the active/inactive ingredients and an outer surface backing layer with breathable fabric. The adhesive side is covered with a removable, clear, unprinted, plastic film. The outer surface of the backing layer is imprinted with the Trubrex<sup>TM</sup> Transdermal Patch logo. 4 patches are included in each pouch bag. The inactive ingredients include: Arnica, Magnesium, Polyacrylate, Vegan Glycerol, and Water. Trubrex<sup>TM</sup> Transdermal Patch is Latex Free, Paraben Free, and Vegan.

## **10. CLINICAL PHARMACOLOGY**

### *10.1 Pharmacodynamics*

Lidocaine is chemically designated as acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl), has an octanol:water partition ratio of 43 at pH 7.4. Capsaicin is soluble in alcohol, acetone, and ethyl acetate and very slightly soluble in water. Lidocaine is an

amide-type local anesthetic agent and is suggested to stabilize neuronal membranes by inhibiting the ionic fluxes required for the initiation and conduction of impulses. The penetration of lidocaine into intact skin after application of Trubrex<sup>TM</sup> Transdermal Patch is sufficient to produce an analgesic effect, but less than the amount necessary to produce a complete sensory block. Capsaicin is an agonist for the transient receptor potential vanilloid 1 receptor (TRPV1), which is an ion channel-receptor complex expressed on nociceptive nerve fibers in the skin. Topical administration of capsaicin causes an initial enhanced stimulation of the TRPV1-expressing cutaneous nociceptors that may be associated with painful sensations. This is followed by pain relief thought to be mediated by a reduction in TRPV1-expressing nociceptive nerve endings.

### *10.2 Pharmacokinetics*

The amount of lidocaine and capsaicin systemically absorbed from Trubrex<sup>TM</sup> Transdermal Patch is directly related to both the duration of application and the surface area over which it is applied. Systemic exposure decreases upon removal of Trubrex<sup>TM</sup> Transdermal Patch. Lidocaine crosses the placental and blood brain barriers, presumably by passive diffusion. It is not known if lidocaine is metabolized in the skin. Lidocaine is metabolized rapidly by the liver to a number of metabolites, including monoethylglycinexylidide (MEGX) and glycinexylidide (GX), both of which have pharmacologic activity similar to, but less potent than that of lidocaine. Lidocaine and its metabolites are excreted by the kidneys.

## **11. NONCLINICAL TOXICOLOGY**

### *11.1 Carcinogenesis, Mutagenesis, Impairment of Fertility*

#### Carcinogenesis

A minor metabolite, 2,6-xylidine, has been found to be carcinogenic in rats. The blood concentration of this metabolite is negligible following application of Trubrex<sup>TM</sup> Transdermal Patch.

#### Mutagenesis

Lidocaine HCl is not mutagenic in Salmonella/mammalian microsome test nor clastogenic in chromosome aberration assay with human lymphocytes and mouse micronucleus test.

#### Impairment of Fertility

The effect of Trubrex<sup>TM</sup> Transdermal Patch on fertility has not been studied.

## **12. HOW SUPPLIED / STORAGE & HANDLING**

### *12.1 How Supplied*

Trubrex<sup>TM</sup> Transdermal Patch comes in a sealed pouch bag. Each patch is 2 in x 2 in (5.08 cm x 5.08 cm) and consists of an adhesive side containing the active/inactive ingredients and an outer surface backing layer. The adhesive side is covered with a removable, clear, unprinted, plastic film. The outer surface of the backing layer is imprinted with the Trubrex<sup>TM</sup> Transdermal Patch logo.

Trubrex<sup>TM</sup> Transdermal Patch is available as a unit box containing 32 patches (8 pouch

bags). NDC 83295-4000-1

### *12.2 Storage*

Store unit box between 68 °-77 ° F (20 °-25 ° C). Excursions between 15 °-30 ° C (59 °-86 ° F) are allowed. Keep Trubrex<sup>TM</sup> Transdermal Patch in the sealed pouch bags until immediately before use.

### *12.3 Handling and Disposal*

Unintended exposure to capsaicin can cause severe irritation of eyes, skin, respiratory tract, and mucous membranes. Avoid contact with your eyes, nose, or mouth. Keep used and unused patches out of the reach of children and pets. Pouch bags are not child resistant. Wash hands with soap and water after handling the patch. If irritation or a burning sensation occurs during application, remove the patch and do not reapply until the irritation subsides. After use, fold patches so that the adhesive side sticks to itself, then safely discard used patches where children and pets cannot get to them.

## **13. PATIENT COUNSELING INFORMATION**

- Inform patients that accidental exposure to capsaicin from touching Trubrex<sup>TM</sup> Transdermal Patch can cause severe irritation of eyes, mucous membranes, respiratory tract, and skin. If this occurs, patient should notify a healthcare professional immediately.
- Inform patients that the treated area may be sensitive to heat (e.g., hot showers/bath, direct sunlight, vigorous exercise) for a few days following treatment.
- Inform patients that as a result of treatment-related increases in pain, small transient increases in blood pressure may occur during and shortly after Trubrex<sup>TM</sup> Transdermal Patch treatment and that blood pressure will be monitored during the treatment process. If any cardiovascular event occurs, patient should notify a healthcare professional immediately.

Manufactured for Strand Health Group, Las Vegas, NV 89102, USA.

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For comments or questions, please email [cs@strandhealthgroup.com](mailto:cs@strandhealthgroup.com).

**NDC 83295-4000-1**

**Trubrex<sup>TM</sup> Transdermal Patch**

**Extended Time Release**

**Rx Only**

**[Trubrex Logo]**

# TRUBREXA™

Transdermal Patch Extended Time Release  
Lidocaine 4.75% Capsaicin 0.025%

4 REUSABLE  
TRANSDERMAL PATCHES  
with Arnica and Magnesium

Matrix Style Transdermal Patches  
Patented Water-Based Hydrogel Adhesive  
Breathable Fabric  
Long Wear

## TRUBREXA™

Transdermal Patch Extended Time Release  
Lidocaine 4.75% Capsaicin 0.025%

### DIRECTIONS FOR USE:

Clean and dry affected area, remove patch from plastic liner and place on affected area.

Use 1 patch for up to 12 hours.

Place used patch on liner when not in use.

Re-use patch up to 2 times.

Lot:  
Exp. Date:



Latex Free, Paraben Free, Vegan



## TRUBREXA™

Transdermal Patch Extended Time Release  
Lidocaine 4.75% Capsaicin 0.025%

# TRUBREXA™

Transdermal Patch Extended Time Release  
Lidocaine 4.75% Capsaicin 0.025%

Place prescription label here

32 PATCHES

Rx Only

NDC 83295-4000-1

## TRUBREXA™

Transdermal Patch Extended Time Release  
Lidocaine 4.75% Capsaicin 0.025%



### DO dosage AND ADMINISTRATION

Dispense Trubrexal™ with enclosed medication package insert.

See medication package insert for full prescribing information.

Clean and dry the affected area. Apply Trubrexal™ Transdermal Patch to intact skin to cover the most painful area. Apply product directly to your skin, up to 2 times daily. Remove and change patch once every 12 hours. Clothing may be worn over the area of application. Wash hands with soap and water after handling the patch.

If irritation or burning sensation occurs during application, wash the medication off your skin and do not attempt to reapply until the irritation subsides.

If Trubrexal™ Transdermal Patch is used with other products containing local anesthetic agents, the amount absorbed from all formulations must be considered.

After use fold patches so that the adhesive side sticks to itself, then safely discard used patches where children and pets cannot get to them.

Store at 68° to 77°F (20° to 25°C)

For External Use Only

### WARNING

Please keep used and unused patches out of the reach of children and pets. Pouch bags are not child resistant. Avoid contact with your eyes, nose or mouth when utilizing Trubrexal™ Transdermal Patch. If contact with your eyes occurs, rinse right away with water or saline and consult your doctor if eye irritation continues.

Inactive Ingredients  
Aqua, Arnica, Magnesium, Polyacrylate, Vegan Glycerol



Questions or Comments? [cs@strandhealthgroup.com](mailto:cs@strandhealthgroup.com)

Latex Free, Paraben Free, Vegan

# TRUBREXA

lidocaine and capsaicin patch

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:83295-4000
<b>Route of Administration</b>	TRANSDERMAL		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>CAPSAICIN</b> (UNII: S07O44R1Z M) (CAPSAICIN - UNII:S07O44R1Z M)	CAPSAICIN	0.00025 g in 1 g
<b>LIDOCAINE</b> (UNII: 98PI200987) (LIDOCAINE - UNII:98PI200987)	LIDOCAINE	0.0475 g in 1 g

## Inactive Ingredients

Ingredient Name	Strength
<b>GLYCERIN</b> (UNII: PDC6A3C00X)	
<b>ARNICA MONTANA FLOWER</b> (UNII: OZ0E5Y15PZ)	
<b>POLYACRYLIC ACID (250000 MW)</b> (UNII: 9G2MAD7J6W)	
<b>MAGNESIUM</b> (UNII: I38ZP9992A)	
<b>WATER</b> (UNII: 059QF0KO0R)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:83295-4000-1	8 in 1 BOX	10/03/2023	
1		4 in 1 POUCH		
1		2.7 g in 1 PATCH; Type 0: Not a Combination Product		
2	NDC:83295-4000-5	4 in 1 POUCH	10/03/2023	10/31/2023
2		2.7 g in 1 PATCH; Type 0: Not a Combination Product		
3	NDC:83295-4000-4	4 in 1 POUCH	10/03/2023	
3		2.7 g in 1 PATCH; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
unapproved drug other		10/03/2023	

**Labeler** - Strand Health Group (118929144)

