Probuphine

(buprenorphine implant)



(III

New Product Slideshow



Introduction

- Brand name: Probuphine
- Generic name: Buprenorphine
- Pharmacological class: Opioid (partial agonist-antagonist)
- Strength and Formulation: 74.2mg (equivalent to 80mg buprenorphine HCl); per implant; for subdermal use
- Manufacturer: Braeburn Pharmaceuticals
- How supplied: Kit—1 (4 implants with applicator)
- Legal Classification: CIII

PROBUPHINE



Indications

Maintenance treatment of opioid dependence in patients who have achieved and sustained prolonged clinical stability on low-to-moderate doses of transmucosal buprenorphinecontaining product (eg, ≤8mg/day Subutex, Suboxone, or generic equivalent), as part of a complete treatment plan to include counseling and psychosocial support

Dosage & Administration

- See full labeling
- For opioid-tolerant patients only
- Insert 4 implants subdermally in the upper arm for 6 months, then remove
- Examine insertion site 1 week after procedure for infection or impaired wound healing

Dosage & Administration

• After first 6-month cycle, implants may be replaced by new implants at time of removal in the contralateral arm, if continuing treatment; maintain on previous dose of transmucosal buprenorphine if not inserted on same day as removal

Considerations for Special Populations

- Pregnancy: May cause fetal harm
- Nursing mothers: Monitor infant for increased drowsiness and breathing difficulties
- Pediatric: <16 years: not established</p>
- Geriatric: Prescribe with caution; monitor for toxicity or overdose
- Hepatic impairment: Moderate or severe impairment: plasma levels may be higher

- Risk of serious complications from insertion/removal of implants; see full labeling
- Abuse potential (monitor)
- Risk of significant respiratory depression
- Compromised respiratory function (eg, COPD, cor pulmonale, decreased respiratory reserve, hypoxia, hypercapnia, pre-existing respiratory depression)

- Monitor LFTs prior to initiation and periodically during therapy; evaluate if a hepatic event is suspected
- Moderate or severe hepatic impairment; avoid
- Head injury
- Intracranial lesions
- Biliary tract dysfunction
- Acute abdomen
- Myxedema

- Hypothyroidism
- Adrenal cortical insufficiency
- CNS depression
- Coma
- Toxic psychoses
- GI or GU obstruction
- Acute alcoholism
- Delirium tremens

- Kyphoscoliosis
- History of keloid formation, connective tissue disease (eg, scleroderma), or recurrent MRSA infections
- Avoid abrupt cessation
- Opioid-naïve
- Debilitated
- Unintentional pediatric exposure

Interactions

- Potentiated by CYP3A4 inhibitors (eg, azole antifungals, macrolides, HIV protease inhibitors): monitor and may need dose adjustments or discontinuation
- Antagonized by CYP3A4 inducers: monitor for opioid withdrawal and consider dose adjustments or discontinuation
- Concomitant NNRTIs (eg, efavirenz, nevirapine, etravirine, delavirdine) or PIs (eg, atazanavir with/without ritonavir): monitor

Interactions

 Risk of respiratory or CNS depression with concomitant opioid analgesics, general anesthetics, benzodiazepines, phenothiazines, other tranquilizers, sedative/hypnotics, alcohol, or other CNS depressants; caution and consider dose reduction of one or both drugs

Interactions

 Risk of serotonin syndrome with concomitant SSRIs, SNRIs, TCAs, 5-HT3receptor antagonists, mirtazapine, trazodone, tramadol, MAO inhibitors; monitor and discontinue if suspected

Adverse Reactions

- Implant-site pain/pruritus/erythema
- Headache
- Depression
- Constipation
- Nausea
- Vomiting
- Back pain
- Toothache
- Oropharyngeal pain

- Signs/symptoms of opioid withdrawal
- Insertion/removal complications
- Orthostatic hypotension
- Hepatitis
- Hypersensitivity reactions

Mechanism of Action

 Buprenorphine is a partial agonist at the mu-opioid receptor and an antagonist at the kappa-opioid receptor

The efficacy of Probuphine was demonstrated in a randomized doubleblind, double-dummy study in adults who met DSM-IV-TR criteria for opioid dependence as their primary diagnosis, and were considered clinically stable on a sublingual buprenorphine dose of ≤8mg/day

- In the study, stable subjects on maintenance treatment were randomized to either:
 - Probuphine + placebo sublingual tabs (n=87)
 - Sublingual buprenorphine/naloxone tabs + placebo implants (n=89)
- Efficacy was evaluated with through urine toxicology screening and patient selfreport to detect opioid use over the 6month treatment period

- In the Probuphine Only group (no supplemental dosing), 63% of patients successfully maintained clinical stability with no evidence of illicit opioid use
- In the Sublingual Buprenorphine group, 64% of patients maintained clinical stability with no evidence of illicit opioid use
 - Treatment difference -1% (95% CI: -15%, 13%)

 Additionally, 11 patients in the Probuphine Only group required supplemental sublingual buprenorphine but had no evidence of opioid use

For more clinical study data, see full labeling

New Product Monograph

 For more information view the product monograph available at:

http://www.empr.com/probuphine/drug/34590/