

## Overview of Bupropion

The term bupropion is derived from *byoo-PROE-pee-on*. It is a weak dopamine and norepinephrine reuptake inhibitor atypical antidepressants drug. This drug is also useful for decreasing cravings & attenuating withdrawal symptoms of nicotine in patients trying to quit smoking.

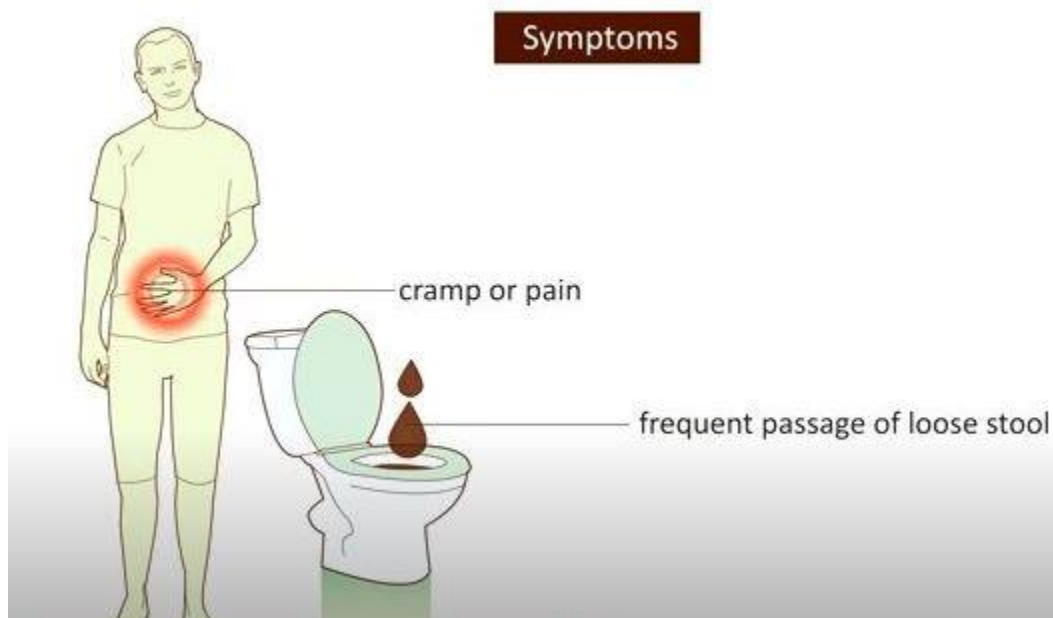
## Mechanism of action

It inhibits the reuptake of dopamine (DA) and norepinephrine (NE) in the neuron and uptake of serotonin in the CNS.

## Pharmacokinetics

- Absorption: although well absorbed in the body, rapidly, and extensively metabolized by the liver.
- Distribution: unknown
- Metabolism and excretion: extensively metabolized by the liver in the body. Some conversion to active metabolites.
- Half-life: 14 hours (active metabolites may have longer half-lives)

## Adverse drug reaction (side effects Bupropion)



- Headache and fever
- Dry mouth
- Nausea and [diarrhea](#)

- Insomnia
- Dizziness
- **Pharyngitis**
- Constipation
- Agitation
- Anxiety, mania, and psychosis
- Abdominal pain
- Tinnitus
- Tremor
- Nervousness
- Somnolence (sleepiness)
- Irritability
- Vasodilation
- Photosensitivity
- Hypertonia
- Suicidal ideation
- Emotional lability
- Hostility
- Palpitation
- Myalgia (muscle pain)
- Twitching
- Sweating
- Chills and Rashes
- Migraine and tremor
- Hot flushes and flushing
- Dysphagia and anorexia
- Facial edema
- Hypotension and stroke
- Tachycardia and gastric reflux
- Gingivitis and increased salivation
- Jaundice and mouth ulcers
- Stomatitis and thirst
- Ecchymosis and leg cramps
- Dysphoria and vertigo
- Phlebitis and pulmonary embolism
- Colitis, esophagitis, GI hemorrhage, intestinal perforation, and hepatitis
- Pancreatitis and intestinal ulcer
- Hyperglycemia and hypoglycemia
- Anemia, muscle weakness, and rhabdomyolysis
- Euphoria and delirium
- Pneumonia and stevens-johnson syndrome
- Mydriasis and deafness
- Increased intraocular pressure
- Abnormal ejaculation

- Cystitis, vaginitis, and salpingitis
- Weight gain or loss
- Syndrome inappropriate ADH secretion

If you have various side effects after using a drug then consult your doctor and treat as soon as possible.

### **Uses of Bupropion**

- Treatment of depression (with psychotherapy)
- Depression inpatient with seasonal affective disorder
- Smoking cessation
- Unlabeled uses:
  - Attention-deficit hyperactivity disorder (ADHD) in adults
  - To increase sexual desire in women

### **Contraindications**

- Hypersensitivity
- Current or history of seizure
- Eating disorder (e.g. bulimia, or anorexia nervosa)
- CNS tumors
- Epilepsy
- History of bipolar disorder
- Abrupt withdrawal of alcohol
- Severe hepatic disorder
- Concurrent MAO inhibitor or ritonavir therapy
- Lactation: secreted in breast milk in humans; potential for serious adverse reactions in nursing infants.

### **Interactions**

- Increased risk of adverse reactions when used with amantadine, levodopa, or MAO inhibitors (concurrent use of MAO inhibitors is contraindicated).
- Increased risk of seizures with various other drugs include phenothiazines, antidepressants, theophylline, corticosteroids, OTC stimulants/anorectics, or cessation of alcohol or benzodiazepines
- Carbamazepine may decrease blood levels and effectiveness
- Blood level increases by ritonavir
- Concurrent use with nicotine replacement therapy may cause hypertension.
- Increased risk of bleeding with warfarin