

Treatment of Overdose

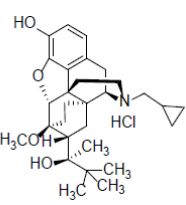
In the event of overdose, the respiratory and cardiac status of the patient should be monitored carefully. When respiratory or cardiac functions are depressed, primary attention should be given to the re-establishment of adequate respiratory exchange through provision of a primary airway and institution of assisted or controlled ventilation. Oxygen, IV fluids, vasopressors, and other supportive measures should be employed as indicated.

In the case of overdose, the primary management should be the re-establishment of adequate ventilation with mechanical assistance of respiration, if required. Naloxone may be of value for the management of buprenorphine overdose. Higher than normal doses and repeated administration may be necessary. The long duration of action of buprenorphine sublingual tablets does not allow for the use of naloxone for the management of buprenorphine overdose. Medical surveillance needed to reverse the effects of an overdose. Insufficient duration of monitoring may put patients at risk.

11 DESCRIPTION

Buprenorphine sublingual tablets, 2 mg are white to off white round flat beveled edge tablets debossed with '682' on one side and plain on other side and buprenorphine sublingual tablets, 8 mg are white to off white round flat beveled edge tablets debossed with '683' on one side and plain on other side. They contain buprenorphine hydrochloride, a partial agonist at the mu-opioid receptor, and is available in two dosage strengths, 2 mg buprenorphine and 8 mg buprenorphine (as the free base), equivalent to 2.16 mg buprenorphine hydrochloride, USP and 8.64 mg buprenorphine hydrochloride, USP. Each tablet also contains citric acid anhydrous, pregelatinized starch, croscarmellose sodium, lactose monohydrate, magnesium stearate, mannitol, povidone, purified water, sodium citrate, butylated hydroxyanisole and acesulfame potassium.

Chemically, buprenorphine hydrochloride, USP is 6,14-ethenorphinan-7-methanol, 17-(cyclopropylmethyl)-alpha-(1,1-dimethyl-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-alpha-methyl)- hydrochloride, (alphaS,Salpha,7alpha). It has the following chemical structure.



Buprenorphine hydrochloride, USP has the molecular formula C₂₇H₃₅NO₄•HCl and the molecular weight is 504.10. It is a white to almost white powder. Buprenorphine, USP is sparingly soluble in water, freely soluble in methanol, soluble in alcohol and practically insoluble in cyclohexane.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Buprenorphine sublingual tablets contain buprenorphine, a partial agonist at the mu-opioid receptor and an antagonist at the kappa-opioid receptor.

12.2 Pharmacodynamics

Subjects Effects

Comparisons of buprenorphine to full opioid agonists such as methadone and hydromorphone suggest that sublingual buprenorphine produces typical opioid agonist effects which are limited by a ceiling effect.

Opioid agonist ceiling effects were also observed in a double-blind, parallel group, dose-ranging comparison of single doses of buprenorphine sublingual solution (1, 2, 4, 8, 16, or 32 mg), placebo and a full agonist control at various doses. The treatments were given in ascending dose order at intervals of at least one week to 16 opioid-experienced subjects who were not physically dependent. Both active drugs produced typical opioid agonist effects. For all measures for which the drugs produced an effect, buprenorphine produced a dose-related response. However, in each case, there was a dose that produced no further effect. In contrast, the highest dose of the full agonist control produced the greatest effects. Against objective rating scores remained elevated for the higher doses of buprenorphine (8-32 mg) longer than for the lower doses and did not return to baseline until 48 hours after drug administration. The onset of effects appeared more rapidly with buprenorphine than with the full agonist control, with most doses reaching peak effect after 100 minutes for buprenorphine compared to 150 minutes for the full agonist control.

Physiologic Effects

Buprenorphine in IV (2, 4, 8, 12 and 16 mg) and sublingual (12 mg) doses has been administered to opioid-experienced subjects who were not physically dependent to examine cardiovascular, respiratory and subjective effects at doses comparable to those used for treatment of opioid dependence. Compared to placebo, there were no statistically significant differences among any of the treatment conditions for blood pressure, heart rate, respiratory rate, O₂ saturation, or skin temperature across time. Systolic BP was higher in the 8 mg group than placebo (3-hour AUC values). Minimum and maximum effects were similar across all treatments. Subjects remained responsive to low voice and responded to computer prompts. Some subjects showed irritability, but no other changes were observed.

The respiratory effects of sublingual buprenorphine were compared with the effects of methadone in a double-blind, parallel group, dose ranging comparison of single doses of buprenorphine sublingual solution (1, 2, 4, 8, 16, or 32 mg) and oral methadone (15, 30, 45, or 60 mg) in non-dependent, opioid-experienced volunteers. In this study, hypoventilation not requiring medical intervention was reported more frequently after buprenorphine doses of 4 mg and higher than after methadone. Both drugs decreased O₂ saturation to the same degree.

Effects on the Endocrine System

Opioids inhibit the secretion of adrenocorticotropic hormone (ACTH), cortisol, and luteinizing hormone (LH) in humans [see Adverse Reactions (6.2)]. They also stimulate prolactin, growth hormone (GH) secretion, and pancreatic secretion of insulin and glucagon.

Chronic use of opioids may influence the hypothalamic-pituitary-gonadal axis, leading to androgen deficiency that may manifest as low libido, impotence, erectile dysfunction, amenorrhea, or infertility. The causal role of opioids in the clinical syndrome of hypogonadism is unknown because the various medical, physical, lifestyle, and psychological stressors that may influence gonadal hormone levels have not been adequately controlled for in studies conducted to date. Patients presenting with symptoms of androgen deficiency should undergo laboratory evaluation.

Cardiac Electrophysiology

Though OT studies with buprenorphine products have demonstrated QT prolongation > 15 msec.

12.3 Pharmacokinetics

Plasma levels of buprenorphine increased with the sublingual dose of buprenorphine sublingual tablets (Table 4). There was wide inter-patient variability in the sublingual absorption of buprenorphine, but within subjects the variability was low. Both C_{max} and AUC of buprenorphine increased in a linear fashion with the increase in dose (in the range of 4 mg to 16 mg), although the increase was not directly dose-proportional.

Table 4 Pharmacokinetic Parameters of Buprenorphine and Norbuprenorphine after the sublingual administration of Buprenorphine sublingual tablets						
Dose	Analyte	Mean SD	C _{max} (ng/mL)	T _{max} (h)	AUC _{0-∞} (h•ng/mL)	t _{1/2} (h)
2 mg	Buprenorphine	Mean 1.25 SD 0.584	1.84 0.62	1.84 0.945	10.93 3.945	31.66 12.86
	Norbuprenorphine	Mean 0.201 SD 0.127	2.36 2.75	12.29 4.526	39.28 20.85	39.28 20.85
	Buprenorphine	Mean 2.88 SD 1.14	1.28 0.46	28.39 10.22	35.01 14.7	35.01 14.7
	Norbuprenorphine	Mean 1.38 SD 0.752	1.75 2.11	44.33 22.61	44.33 19.27	44.33 19.27
8 mg	Buprenorphine	Mean 4.70 SD 2.16	1.42 0.50	47.09 20.03	36.51 13.99	36.51 13.99
	Norbuprenorphine	Mean 2.65 SD 1.62	1.52 1.34	92.31 34.74	40.35 12.07	40.35 12.07

Distribution

Buprenorphine is approximately 96% protein bound, primarily to alpha and beta globulin.

Elimination

Metabolism

Buprenorphine undergoes both N-desalkylation to norbuprenorphine and glucuronidation. The N-desalkylation pathway is mediated primarily by CYP3A4. Norbuprenorphine, the major metabolite, can further undergo glucuronidation. Norbuprenorphine has been found to bind opioid receptors *in vitro*; however, it is not known whether norbuprenorphine contributes to the overall effect of buprenorphine sublingual tablets.

Excursion

A mass balance study of buprenorphine showed complete recovery of radiolabel in urine (30%) and feces (69%) collected up to 11 days after dosing. Almost all of the dose was accounted for in terms of buprenorphine, norbuprenorphine, and two unidentified buprenorphine metabolites. In urine, most of buprenorphine and norbuprenorphine was conjugated (buprenorphine, 1% free and 9.4% conjugated; norbuprenorphine, 2% free and 11% conjugated). In feces, almost all of the buprenorphine and norbuprenorphine were free (buprenorphine, 33% free and 5% conjugated; norbuprenorphine, 21% free and 2% conjugated). When buprenorphine sublingual tablets are administered sublingually, buprenorphine has a mean elimination half-life from plasma ranging from 31 to 35 hours.

Drug Interactions Studies

CYP3A4 Inhibitors and Inducers

Buprenorphine has been found to be a CYP2D6 and CYP3A4 inhibitor and its major metabolite, norbuprenorphine has been found to be a moderate CYP2D6 inhibitor *in vitro* studies employing human liver microsomes. However, the relatively low plasma concentrations of buprenorphine and norbuprenorphine resulting from therapeutic doses are not expected to raise significant drug-drug interaction concerns [see Drug Interactions (7)].

Specific Populations

Hepatic Impairment

In a pharmacokinetic study the disposition of buprenorphine was determined after administering a 2.0 mg/0.5 mg buprenorphine and naloxone sublingual tablet in subjects with varied degrees of hepatic impairment as indicated by Child-Pugh criteria. The disposition of buprenorphine in patients with hepatic impairment was compared to disposition in subjects with normal hepatic function.

In subjects with mild hepatic impairment, the changes in mean C_{max}, AUC_{0-∞}, and half-life values of buprenorphine were not clinically significant.

For subjects with moderate and severe hepatic impairment, mean C_{max}, AUC_{0-∞}, and half-life values of buprenorphine were increased (Table 5) [see Warnings and Precautions (5.12), Use in Specific Populations (8.6)].

Table 5 Changes in Buprenorphine Pharmacokinetic Parameters in Subjects with Moderate and Severe Hepatic Impairment		
Hepatic Impairment	PK Parameters	Increase in buprenorphine compared to healthy subjects
Moderate	C _{max}	8%
	AUC _{0-∞}	64%
	Half-life	35%
Severe	C _{max}	72%
	AUC _{0-∞}	181%
	Half-life	57%

HCV Infection

In subjects with HCV infection but no sign of hepatic impairment, the changes in the mean C_{max}, AUC_{0-∞}, and half-life values of buprenorphine were not clinically significant in comparison to healthy subjects without HCV infection.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity

Carcinogenicity studies of buprenorphine were conducted in Sprague-Dawley rats and CD-1 mice. Buprenorphine was administered in the diet to rats at doses of 0.6, 3.5, and 56 mg/kg/day (estimated exposure was approximately 0.4, 2, and 35 times the recommended human daily sublingual dose of 16 mg on a mg/m² basis) for 27 months. As in the buprenorphine/naloxone carcinogenicity study in rat, statistically significant dose-related increases in Leydig cell tumors occurred. In an 86-week study in CD-1 mice, buprenorphine was not carcinogenic at dietary doses up to 100 mg/kg/day (estimated exposure was approximately 30 times the recommended human daily sublingual dose of 16 mg on a mg/m² basis).

Mutagenicity

Buprenorphine was studied in a series of tests utilizing gene, chromosome, and DNA interactions in both prokaryotic and eukaryotic systems. Results were negative in yeast (*S. cerevisiae*) for recombinant, gene convertant, or forward mutations; negative in *Escherichia coli* "rec" assay, negative for clastogenicity in CHO cells, Chinese hamster bone marrow and spermatogenic cells, and negative in the mouse lymphoma L5178Y assay.

Results were equivocal in the Ames test: negative in studies in two laboratories, but positive for frame shift mutation at a high dose (5 mg/plate) in a third study. Results were positive in the Green-Twisted (*E. coli*) survival test, positive in a DNA synthesis inhibition (DS) test with testicular tissue from mice, for both *in vivo* and *in vitro* incorporation of [³H]thymidine, and positive in unscheduled DNA synthesis (UDS) test using testicular cells from mice.

Impairment of Fertility

Reproduction studies of buprenorphine in rats demonstrated no evidence of impaired fertility at daily oral doses up to 80 mg/kg/day (estimated exposure was approximately 50 times the recommended human daily sublingual dose of 16 mg on a mg/m² basis) or up to 5 mg/kg/day (40 mg) (estimated exposure was approximately 5 times the recommended human daily sublingual dose of 16 mg on a mg/m² basis).

14 CLINICAL STUDIES

Clinical data on the safety and efficacy of buprenorphine sublingual tablets were derived from studies of buprenorphine sublingual tablet formulations, with and without naloxone, and from studies of sublingual administration of a more bioavailable ethanolic solution of buprenorphine.

Buprenorphine sublingual tablets were studied in 1834 patients; buprenorphine and naloxone sublingual tablets in 575 patients, and buprenorphine sublingual solutions in 2470 patients. A total of 1270 women received buprenorphine in those clinical trials. Dosing recommendations are based on data from one trial of both tablet formulations and two trials of the ethanolic solution. All trials used buprenorphine in conjunction with psychosocial counseling as part of a comprehensive addiction treatment program. There were no clinical studies conducted to assess the efficacy of buprenorphine as the only component of treatment.

In a double-blind, placebo- and active-controlled study, 326 heroin-addicted subjects were randomly assigned to either buprenorphine and naloxone sublingual tablets, 16 mg per day; buprenorphine sublingual tablets, 16 mg per day; or placebo sublingual tablets. For subjects randomized to either active treatment, dosing began with one 8 mg buprenorphine sublingual tablet on Day 1, followed by 16 mg (two 8 mg tablets) of buprenorphine sublingual tablets on Day 2. On Day 3, those randomized to receive buprenorphine and naloxone sublingual tablets were switched to the combination tablet. Subjects randomized to placebo received one placebo tablet on Day 1 and two placebo tablets per day thereafter for four weeks. Subjects were seen daily in the clinic (Monday through Friday) for dosing and efficacy assessments. Take-home doses were provided for weekends. Subjects were instructed to hold the medication under the tongue for approximately 5 to 10 minutes until completely dissolved. Subjects received counseling regarding HIV infection and up to one hour of individualized counseling per week. The primary study comparison was to assess the efficacy of buprenorphine and naloxone sublingual tablets and buprenorphine sublingual tablets individually against placebo sublingual tablet. The percentage of three-weekly urine samples that were negative for non-study opioids was statistically higher for both buprenorphine and naloxone sublingual tablets and buprenorphine sublingual tablets than for placebo sublingual tablets.

In a double-blind, double-dummy, parallel-group study comparing buprenorphine ethanolic solution to a full agonist active control, 162 subjects were randomized to receive the ethanolic solution of buprenorphine at 8 mg/day (a dose which is roughly comparable to a dose of 12 mg per day of buprenorphine sublingual tablets), or two relatively low doses of active control, one of which was low enough to serve as an alternative to placebo, during a 3-10 day induction phase, a 16-week maintenance phase and a 7-week detoxification phase. Buprenorphine was titrated to maintenance dose by Day 3; active control doses were titrated more gradually. Maintenance dosing continued through Week 17, and then medications were tapered by approximately 20%-30% per week over Weeks 18-24, with placebo dosing for the last two weeks. Subjects received individual and/or group counseling weekly. Based on retention in treatment and the percentage of three-weekly urine samples negative for non-study opioids, buprenorphine was more effective than the low dose of the control, in keeping heroin addicts in treatment and in reducing their use of opioids while in treatment. The effectiveness of buprenorphine, 8 mg per day was similar to that of the moderate active control dose, but equivalence was not demonstrated.

In a dose-controlled, double-blind, parallel-group, 16-week study, 731 subjects were randomized to receive one of four doses of buprenorphine ethanolic solution: 1 mg, 4 mg, 8 mg, and 16 mg.

Buprenorphine was titrated to maintenance doses over 1-4 days and continued for 16 weeks. Subjects received at least one session of AIDS education and additional counseling ranging from one hour per month to one hour per week, depending on site. Based on retention in treatment and the percentage of three-weekly urine samples negative for non-study opioids, the three highest tested doses were superior to the 1 mg dose. Therefore, this study showed that a range of buprenorphine doses may be effective. The 1 mg dose of buprenorphine sublingual solution can be considered to be somewhat lower than a 2 mg tablet dose. The other doses used in the study represent a range of tablet doses from approximately 6 mg to approximately 24 mg.

16 HOW SUPPLIED/STORAGE AND HANDLING

Buprenorphine sublingual tablets are available in the strengths and packages listed below:

- 2 mg tablets: White to off white round flat beveled edge tablets debossed with '682' on one side and plain on other side.

NDC 31722-870-30 Bottle containing 30 tablets

- 8 mg tablets: White to off white round flat beveled edge tablets debossed with '683' on one side and plain on other side.

NDC 31722-871-30 Bottle containing 30 tablets

Storage of Tablets

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Store buprenorphine sublingual tablets securely and dispose of properly [see Patient Counseling Information (17)].

17 PATIENT COUNSELING INFORMATION

Advise patients to read the FDA-approved patient labeling (Medication Guide).

Storage and Disposal

Because of the risks associated with accidental ingestion, misuse, and abuse, advise patients to store buprenorphine sublingual tablets securely out of sight and reach of children, and in a location not accessible by others, including visitors to the home [see Warnings and Precautions (5.1, 5.4), Drug Abuse and Dependence (9.2)]. Inform patients that leaving buprenorphine sublingual tablets unsecured can pose a deadly risk to others in the home.

Advise patients and caregivers that when medicines are no longer needed, they should be disposed of promptly. Expired, unwanted, or unused buprenorphine sublingual tablets should be disposed of by flushing the unused medication down the toilet, if a drug take-back option is not readily available. Inform patients that they can visit www.fda.gov/drugdisposal for a complete list of medicines recommended for disposal by flushing, as well as additional information on disposal of unused medicines.

Safe Use

Before initiating treatment with buprenorphine sublingual tablets, explain the points listed below to caregivers and patients. Instruct patients to read the Medication Guide each time buprenorphine sublingual tablets are dispensed because new information may be available.

- Inform patients and caregivers that potentially fatal additive effects may occur if buprenorphine sublingual tablets are used with benzodiazepines or other CNS depressants, including alcohol. Counsel patients that such medications should not be used concomitantly unless supervised by a health care provider [see Warnings and Precautions (5.2, 5.3), Drug Interactions (7)].

• Educate patients and caregivers on how to recognize respiratory depression and emphasize the importance of calling 911 or getting emergency medical help right away in the event of a known or suspected overdose [see Warnings and Precautions (5.2)].

• Patient Access to Naloxone for the Emergency Treatment of Opioid Overdose

Because patients being treated for opioid use disorder are at risk for relapse, discuss the importance of having access to naloxone with the patient and caregiver. Also discuss the importance of having access to naloxone if there are household members (including children) or other close contacts at risk for accidental ingestion or opioid overdose.

Inform patients and caregivers of the options for obtaining naloxone as permitted by individual state naloxone dispensing and prescribing requirements or guidelines (e.g., by prescription, directly from a pharmacist, or as part of a community-based program).

Educate patients and caregivers on how to recognize the signs and symptoms of an opioid overdose.

Explain to patients and caregivers that naloxone's effects are temporary, and that they must call 911 or get emergency medical help right away in all cases of known or suspected opioid overdose, even if naloxone is administered. Repeat administration may be necessary, particularly when overdose involves buprenorphine and naloxone sublingual film, because naloxone is often not effective at the doses available for patient access [see Dosage and Administration (2.2), Warnings and Precautions (5.2), Overdose (10)].

If naloxone is prescribed, also advise patients and caregivers:

- How to treat with naloxone in the event of an opioid overdose
- To tell family and friends about their naloxone and to keep it in a place where family and friends can easily access it in an emergency

• To read the Patient Information (or other educational material) that will come with their naloxone. Emphasize the importance of doing this before an opioid emergency happens, so the patient and caregiver will know what to do.

• Advise patients that buprenorphine sublingual tablets contain an opioid that can be a target for people who use prescription medications or street drugs, to keep their tablets in a safe place, and to protect them from theft.

• Instruct patients to keep buprenorphine sublingual tablets in a secure place, out of the sight and reach of children. Accidental or deliberate ingestion by a child may cause respiratory depression that can result in death. Advise patients to seek medical attention immediately if a child is exposed to buprenorphine sublingual tablets.

• Inform patients that opioids could cause a rare but potentially life-threatening condition resulting from concomitant administration of serotonergic drugs. Warn patients of the symptoms of serotonin syndrome and to seek medical attention right away if symptoms develop. Instruct patients to inform their healthcare providers if they are taking, or plan to take serotonergic medications [see Drug Interactions (7)].

• Inform patients that opioids could cause adrenal insufficiency, a potentially life-threatening condition. Adrenal insufficiency may present with non-specific symptoms and signs such as nausea, vomiting, anorexia, fatigue, weakness, dizziness, and low blood pressure. Advise patients to seek medical attention if they experience a constellation of these symptoms [see Warnings and Precautions (5.6)].

• Advise patients to never give buprenorphine sublingual tablets to anyone else, even if he or she has the same signs and symptoms. It may cause harm or death.

• Advise patients that selling or giving away this medication is against the law.

• Advise patients that, after buprenorphine sublingual tablets has completely dissolved in the oral mucosa, to take a sip of water, swish it gently around their teeth and gums, and swallow. Advise patients to wait for at least one hour after taking buprenorphine sublingual tablets before brushing teeth [see Warnings and Precautions (5.13)].

• Refer patients to dental care services and encourage them to have regular dental checkups while taking buprenorphine sublingual tablets. Instruct patients to inform their dentist that they have started therapy on buprenorphine sublingual tablets [see Warnings and Precautions (5.13)].

• Caution patients that buprenorphine sublingual tablets may impair the mental or physical abilities required for the performance of potentially dangerous tasks such as driving or operating hazardous machinery. Caution should be taken especially during drug induction and dose adjustment and until individuals are reasonably certain that buprenorphine therapy does not adversely affect their ability to engage in such activities [see Warnings and Precautions (5.15)].

• Advise patients not to change the dosage of buprenorphine sublingual tablets without consulting their healthcare providers.

• Advise patients that if they miss a dose of buprenorphine sublingual tablets they should take it as soon as they remember. If it is almost time for the next missed dose, they should skip the missed dose and take the next dose at the regular time.

• Advise patients to take buprenorphine sublingual tablets once a day.

• Inform patients that buprenorphine sublingual tablets can cause drug dependence and that withdrawal signs and symptoms may occur when the medication is discontinued.

• Advise patients seeking to discontinue treatment with buprenorphine for opioid dependence to work closely with their healthcare providers on a tapering schedule and inform them of the potential to relapse to illicit drug use associated with discontinuation of opioid agonist/partial agonist medication-assisted treatment.

• Advise patients that, like other opioids, buprenorphine sublingual tablets may produce orthostatic hypotension in ambulatory individuals [see Warnings and Precautions (5.16)].

• Advise patients to inform their healthcare providers if any other prescription medications, over-the-counter medications, or herbal preparations are prescribed or currently being used [see Drug Interactions (7)].

• Advise women that if they are pregnant while being treated with buprenorphine sublingual tablets, the baby may have signs of withdrawal at birth and that withdrawal is treatable [see Warnings and Precautions (5.5), Use in Specific Populations (8.1)].

• Advise women who are breastfeeding to monitor the infant for drowsiness and difficulty breathing [see Specific Populations (8.2)].

• Inform patients that chronic use of opioids may cause reduced fertility. It is not known whether these effects on fertility are reversible [see Females and Males of Reproductive Potential (8.3)].

• Advise patients to inform their family members that, in the event of emergency, the treating healthcare provider or emergency room staff should be informed that the patient is physically dependent on an opioid and that the patient is being treated with buprenorphine sublingual tablets.

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