Naloxone Hydrochloride Nasal Spray



Naloxone Hydrochloride Nasal Spray

HIGHLIGHTS OF PRESCRIBING INFORMATION

information for NALOXONE HYDROCHLORIDE NASAL

--DOSAGE AND ADMINISTRATION--

Naloxone hydrochloride nasal spray is for intranasal

· Seek emergency medical care immediately after

· Administration of a single spray of naloxone

----- CONTRAINDICATIONS Hypersensitivity to naloxone hydrochloride. (4)

FULL PRESCRIBING INFORMATION: CONTENTS*

2.2 Dosing in Adults and Pediatric Patients

3 DOSAGE FORMS AND STRENGTHS

CONTRAINDICATIONS
WARNINGS AND PRECAUTIONS

FULL PRESCRIBING INFORMATIO

Limitations of Use:

INDICATIONS AND USAGE

DOSAGE AND ADMINISTRATION Important Administration Instru

No additional device assembly is required.

Naloxone hydrochloride nasal spray is for intranasal use only.

the first dose of naloxone hydrochloride nasal spray.

. To administer the dose press firmly on the device plunger

· Remove the device nozzle from the nostril after use.

2.2 Dosing in Adults and Pediatric Patients

of administration of the opioid being antagonized.

DOSAGE FORMS AND STRENGTHS

WARNINGS AND PRECAUTIONS

CONTRAINDICATIONS

device prior to administration

not respond or responds and then relapses into respiratory depression

· Administer naloxone hydrochloride nasal spray in alternate nostrils with each dose

after administration of the first dose of naloxone hydrochloride nasal spray.

naloxone hydrochloride nasal spray with each dose until emergency medical assistance arrives.

Dosing Modifications due to Partial Agonists or Mixed Agonist/Antagonists

Risk of Recurrent Respiratory and Central Nervous System Depression

Risk of Limited Efficacy with Partial Agonists or Mixed Agonist/Antagonists

measures may be helpful while awaiting emergency medical assistance.

Precipitation of Severe Opioid Withdrawal

oride nasal spray using a new nasal spray [see Warnings and Precautions (5.2)].

The duration of action of most opioids may exceed that of naloxone hydrochloride nasal spray resulting in a return

of respiratory and/or central nervous system depression after an initial improvement in symptoms. Therefore, it is necessary to seek emergency medical assistance immediately after administration of the first dose of naloxone hydrochloride nasal spray and to keep the patient under continued surveillance. Administer additional doses of naloxone hydrochloride nasal spray if the patient is not adequately responding or responds and then relapses back into respiratory depression, as necessary [see Dosage and Administration (2.2)]. Additional supportive and/or resuscitative

Reversal of respiratory depression by partial agonists or mixed agonist/antagonists such as buprenorphine and pentazocine, may be incomplete. Larger or repeat doses of naloxone hydrochloride may be required to antagonize buprenorphine because the latter has a long duration of action due to its slow rate of binding and subsequent slow dissociation from the opioid receptor [see Dosage and Administration (2.3)]. Buprenorphine antagonism is characterized by a gradual onset of the reversal effects and a decreased duration of action of the normally prolonged respiratory depressions.

The use of naloxone hydrochloride nasal spray in patients who are opioid-dependent may precipitate opioid withdrawa

The use of naloxone hydrochloride nasal spray in patients who are opioid-dependent may precipitate opioid withdrawal characterized by the following signs and symptoms: body aches, diarrhea, tachycardia, few runny nose, sneezing, piloerection, sweating, yawning, nausea or vomiting, nervousness, restlessness or irritability, shivering or trembling, abdominal cramps, weakness, and increased blood pressure. In neonates, opioid withdrawal may be life-threatening if not recognized and properly treated and may include the following signs and symptoms: convulsions, excessive crying, and hyperactive reflexes. Monitor the patient for the development of the signs and symptoms of opioid

There are limited data to inform if the 2 mg dose of naloxone hydrochloride nasal spray will ayoid precipitation o

severe opioid withdrawal in the setting of opioid dependence. However, the 2 mg dose may not provide an adequate

Abrupt postoperative reversal of opioid depression after using naloxone hydrochloride may result in nausea, vomiting

sweating, tremulousness, tachycardia, hypotension, hypertension, seizures, ventricular tachycardia and fibrillation, pulmonary edema, and cardiac arrest. Death, coma, and encephalopathy have been reported as sequelae of these events. These events have primarily occurred in patients who had pre-existing cardiovascular disorders or received other drugs that may have similar adverse cardiovascular effects. Although a direct cause and effect relationship

and timely reversal in persons who may be exposed to an overdose of a potent or very high dose of opioids.

2.3 Dosing Modifications due to Partial Agonists

5.1 Risk of Recurrent Respiratory and Central

5.2 Risk of Limited Efficacy with Partial Agonists

Nervous System Depression

5.3 Precipitation of Severe Opioid Withdrawal

6 ADVERSE REACTIONS

Initial U.S. Approval: 1971

for emergency medical care. (1)

opioid, keep patient under continued surveillance and administer repeat doses of naloxone using a new nasal spray with each dose, as necessary, while awaiting spray with each dose, as necessary, while awaiting of the pulmonary vascular bed resulting in increased hydrostatic pressures.

emergency medical assistance. (5.1)

* Risk of Limited Efficacy with Partial Agonists or Mixed Agonists/Antagonists. Reversal of respiratory depression caused by partial agonists or mixed agonists. The remainded in the postpartum period in neonates with known or suspected exposure to maternal opioid use, where it is preferable to avoid the abrupt precipitation of opioid withdrawal symptoms. In alternative, nalexone-containing product that can be titrated to effect and, where applicable, dosed according to weight [see Use in Specific Populations (8.4)]. NALOXONE HYDROCHLORIDE nasal spray -----INDICATIONS AND USAGE-----Naloxone hydrochloride nasal spray is an opioid antagonist indicated for the emergency treatment of known or suspected opioid overdose, as manifested by respiratory and/or central nervous system depression. (1)

agonists/antagonists, such as buprenorphine and pentazocine, may be incomplete. Larger or repeat doses may be required. (5.2)

 Precipitation of Severe Opioid Withdrawal: Use in patients who are opioid dependent may precipitate opioid withdrawal. In neonates, opioid withdrawal immediate administration as emergency therapy in settings where opioids may be present. (1) Valoxone hydrochloride nasal spray is not a substitute

may be life-threatening if not recognized and properly treated. Monitor for the development of opioid The following adverse reactions were observed in a naloxone hydrochloride nasal spray clinical study withdrawal, (5.3)

Risk of Cardiovascular (CV) Effects: Abrupt osotoperative reversal of opioid depression may result osotoperative reversal osotoperative revers nasal dryness, nasal edema, nasal congestion, nasal inflammation, rhinalgia, and xeroderma. occurred in patients who had pre-existing CV disorders or received other drugs that may have similar adverse CV effects. Monitor these patients closely in an appropriate healthcare setting after use of naloxone hydrochloride. (5.3)

post-operative patients have resulted in significant reversal of analgesia, and have caused agitation. The following adverse reactions were observed in a naloxone hydrochloride nasal spray clinical study: increased blood pressure, constipation, toothache, muscle spasms, musculoskeletal pain, headache, Administer additional doses of naloxone hydrochloride nasal spray, using a new nasal spray with each dose, if the patient does not respond or responds and then relapses into respiratory depression, additional doses of naloxone hydrochloride nasal spray may be nasal dryness, nasal edema, nasal congestion, nasal given every 2 to 3 minutes until emergency medical inflammation, rhinalgia, and xeroderma. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Additional supportive and/or resuscitative measures Teva Pharmaceuticals USA, Inc. at 1-888-838-2872 or may be helpful while awaiting emergency medical FDA at 1-800-FDA-1088 or www.fda.gov/medwatch See 17 for PATIENT COUNSELING INFORMATION and ----DOSAGE FORMS AND STRENGTHS-----

Revised: 11/2020

Naloxone hydrochloride nasal spray is indicated for the emergency treatment of known or suspected opioid overdose, as manifested by respiratory and/or central nervous system depression.

Naloxone hydrochloride nasal spray is intended for immediate administration as emergency therapy in setting

Naloxone hydrochloride nasal spray is not a substitute for emergency medical car

nydrochloride nasal spray. Emphasize the following instructions to the patient or caregiver:

Administer naloxone hydrochloride nasal spray as quickly as possible because prolonged respiratory depress

• Do not attempt to reuse naloxone hydrochloride nasal spray. Each naloxone hydrochloride nasal spray contains a

· Re-administer naloxone hydrochloride nasal spray, using a new nasal spray, every 2 to 3 minutes if the patient does

· Administer naloxone hydrochloride nasal spray according to the printed instructions on the device label and the

of the patient, and provide support to the back of the neck to allow the head to tilt back. Do not prime or test the

• Turn patient on their side as shown in the Instructions for Use and call for emergency medical assistance immediately

nended initial dose of naloxone hydrochloride nasal spray in adults and pediatric patients is one spray

8 USE IN SPECIFIC POPULATIONS Pediatric Use

11 DESCRIPTION 12 CLINICAL PHARMACOLOGY

13 NONCLINICAL TOXICOLOGY

16 HOW SUPPLIED/STORAGE AND HANDLING

Pregnant female rats were administered 2 or 10 mg/kg naloxone subcutaneously from Gestation Day 15 to Postnatal day 21. There were no adverse effects on the offspring (up to 12-times a human dose of 8 mg/day (two naloxone 17 PATIENT COUNSELING INFORMATION information are not listed

There is no information regarding the presence of naloxone in human milk, or the effects of naloxone on the breastfed infant or on milk production. Studies in nursing mothers have shown that naloxone does not affect prolactin or nxytocin hormone levels. Naloxone is minimally orally hinavailable.

The safety and effectiveness of naloxone hydrochloride nasal spray have been established in pediatric patients of all ages for known or suspected opioid overdose as manifested by respiratory and/or central nervous system depression.

Use of naloxone hydrochloride in all pediatric patients is supported by adult bioequivalence studies coupled with evidence from the safe and effective use of other naloxone hydrochloride drug products. No pediatric studies were

The following serious adverse reactions are discussed elsewhere in the labeling:

included convulsions, excessive crying, and hyperactive reflexes.

pregnancies is 2% to 4% and 15% to 20%, respectively.

conducted for naloxone hydrochloride nasal spray.

the rates observed in practice

• Precipitation of Severe Opioid Withdrawal [see Warnings and Precautions (5.3)]

studies of a drug cannot be directly compared to the rates in the clinical studies of another drug and may not reflect

In a pharmacokinetic study of 30 healthy adult volunteers exposed to one spray of naloxone hydrochloride nasal spray

Abrupt reversal of opioid effects in persons who were physically dependent on opioids has precipitated an acute

withdrawal syndrome. Signs and symptoms have included: body aches, fever, sweating, runny nose, sneezing, piloerection, yawning, weakness, shivering or trembling, nervousness, restlessness or irritability, diarrhea, nauser or vomiting, abdominal cramps, increased blood pressure, tachycardia. In some patients, there may be aggressive behavior upon abrupt reversal of an opioid overdose. In the neonate, opioid withdrawal signs and symptoms also

Risk Summary

The limited available data on naloxone use in pregnant women are not sufficient to inform a drug-associated risk. However, there are clinical considerations [see Clinical Considerations]. In animal reproduction studies, no embryotoxic or teratogenic effects were observed in mice and rats treated with naloxone hydrochloride during the period of organogenesis at doses equivalent to 6-times and 12-times, respectively, a human dose of 8 mg/day (two palesyste) by the other hands a personal purpose by the custone are comparing for Other 1.

Naloxone hydrochloride crosses the placenta, and may precipitate withdrawal in the fetus, as well as in the opioid-dependent mother [see Warnings and Precautions (5.3)]. The fetus should be evaluated for signs of distress after naloxone hydrochloride nasal spray is used. Careful monitoring is needed until the fetus and mother are stabilized.

Naloxone hydrochloride was administered during organogenesis to mice and rats at subcutaneous doses up to

10 mg/kg/day (equivalent to 6-times and 12-times, respectively, a human dose of 8 mg (two naloxone hydrochloride

nasal sprays) (based on body surface area comparison). These studies demonstrated no embryotoxic or teratogenio

estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the general population, the estimated background risk of major birth defects and miscarriage in clinically recognized

naloxone hydrochloride nasal sprays) based on body surface area comparison [see Data].

bsorption of naloxone hydrochloride following intranasal administration in pediatric patients may be erratic or Restrict prescription of naloxone hydrochloride nasal spray 2 mg to opioid-dependent patients expected to be at risk delayed. Even when the opiate-intoxicated pediatric patient responds appropriately to naloxone hydrochloride, he/she must be carefully monitored for at least 24 hours, as a relapse may occur as naloxone hydrochloride is metabolized. In opioid-dependent pediatric patients, (including neonates), administration of naloxone hydrochloride may result in an abrupt and complete reversal of opioid effects, precipitating an acute opioid withdrawal syndrome. Neonatal opioid an abupt any complete reversion of upload entities, precipitation and acute upload without any introduced upload withdrawal syndrome, unlike opioid withdrawal syndrome in adults, may be life-threatening, if not recognized, and should be treated according to protocols developed by neonatology experts [see Warnings and Precautions (5.3)]. No additional device assembly is required.

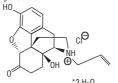
In settings such as in neonates with known or suspected exposure to maternal opioid use, where it may be preferable to avoid the abrupt prescription recipient to inform those around them about the presence of naloxone hydrochloride nasal spray and prescription recipient to inform those around them about the presence of naloxone hydrochloride nasal spray and product that can be dosed according to weight and titrated to effect.

of alternate naloxone-containing products may be better suited than naloxone hydrochloride nasal spray.

Administer naloxone hydrochloride nasal spray as quickly as possible because prolonged respiratory depression may result in damage to the central nervous system or death. Since the duration of action of most opioids exceeds that of or other drug therapy. Therefore, the systemic exposure of naloxone hydrochloride can be higher in these patients. naloxone hydrochloride and the suspected opioid overdose may occur outside of supervised medical settings, seek immediate emergency medical assistance, keep the patient under continued surveillance until emergency personnel arrive, and administer repeated doses of naloxone hydrochloride nasal spray, as necessary. Always seek emergency medical assistance in the event of a suspected, potentially life-threatening opioid emergency after administration of the site of definitions and the supervised of the supervised Clinical studies of naloxone hydrochloride did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified

nces in responses between the elderly and younger patients. DESCRIPTION Additional doses of naloxone hydrochloride nasal spray may be required until emergency medical assistance dihydrate is the hydroc

oride Nasal Spray is a pre-filled, single dose intranasal spray. Chemically, naloxone hydrochloride salt of (5R,9R,13S,14S)-17-Allyl-3,14-dihydroxy-4,5-epo hydrochloride dihydrate with the following structure:



C₁₉H₂₂NO₄CI•2H₂O M.W. 399.87 Naloxone hydrochloride, USP an opioid antagonist, occurs as a white to slightly off-white powder, and is freely soluble

in water, soluble in ethanol (96%) and practically insoluble in toluene. Each Naloxone Hydrochloride Nasal Spray contains a 4 mg single dose of naloxone hydrochloride, USP (equivalen to 3.6 mg of naloxone) in a 0.1 mL (100 microliter) aqueous solution

Inactive ingredients include benzalkonium chloride (preservative), edetate disodium (stabilizer), sodium chloride, sodium hydroxide/hydrochloric acid to adjust pH, and purified water. The pH range is 3.5 to 5.5.

CLINICAL PHARMACOLOGY

e hydrochloride is an opioid antagonist that antagonizes opioid effects by competing for the same receptor

It can also reverse the psychotomimetic and dysphoric effects of agonist-antagonists such as pentazocine. Pharmacodynamics exone hydrochloride is administered intravenously, the onset of action is generally apparent within two minutes. The time to onset of action is shorter for intravenous compared to subcu

If the patient responds to naloxone hydrochloride nasal spray and relapses back into respiratory depression before emergency assistance arrives, administer an additional dose of naloxone hydrochloride nasal spray using a new naloxone hydrochloride nasal spray and continue surveillance of the patient. of administration. The duration of action is dependent upon the dose and route of administration of naloxone

If the desired response is not obtained after 2 or 3 minutes, administer an additional dose of naloxone hydrochloride nasal spray using a new naloxone hydrochloride nasal spray. If there is still no response and additional doses are If the desired response is not obtained after 2 or 3 minutes, administer an additional dose of naloxone hydrochloride nasal spray using a new naloxone hydrochloride nasal spray. If there is still no response and additional doses are available, administer additional doses of naloxone hydrochloride nasal spray every 2 to 3 minutes using a new naloxone hydrochloride nasal spray with each dose until emergency medical assistance arrives. Additional supportive and/or resuscitative measures may be helpful while awaiting emergency medical assistance.

(U.1 mL of 40 mg/mL naloxone hydrochloride solution), and two nasal sprays administered as one nasal spray in each nostril, consisting of a 4 mg total dose (0.1 mL of 20 mg/mL naloxone hydrochloride solution in each nostril) and an 8 mg total dose (0.1 mL of 0 mg/mL naloxone hydrochloride solution in each nostril) are single dose of 0.4 mg naloxone hydrochloride solution in each nostril), were compared to a single dose of 0.4 mg naloxone hydrochloride intramuscular injection. For intransal administration, the subjects were instructed not to breathe through the nose during administration of the nasal spray, and remained fully supine for approximately one hour post-dose. For intramuscular administration, naloxone was administered as a single injection in the glutuse maximus muscle. The pharmacokinetic parameters obtained in the study are shown in Toble 4.

Table 1 Mean Pharmacokinetic Parameters obtained in the study are shown in Toble 4.

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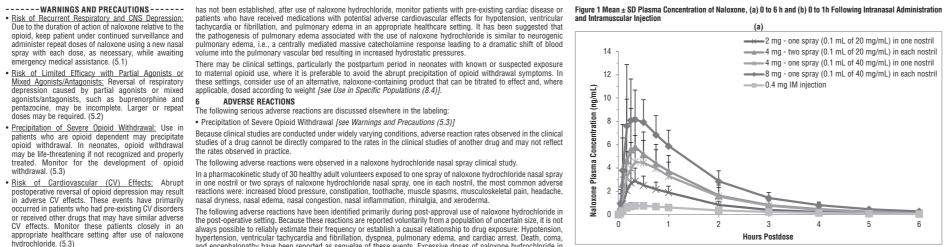
Table 1 Mean Pharmacokinetic Parameters obtained in the study are shown in Toble 4.

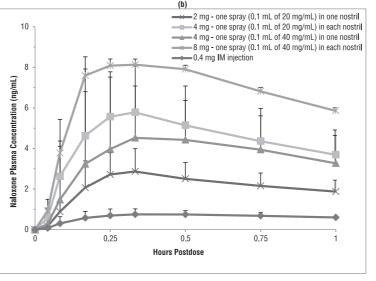
Table 1 Mean Pharmacokinetic Parameters obtained in the study are shown in Toble 4. pentazocine, may be incomplete and require higher doses of naloxone hydrochloride or repeated administration of

Nasal Spray is supplied as a single-dose intranasal spray containing 4 mg of naloxone hydrochloride and Intramuscular Injection of Naloxone HCl to Healthy Subjects Naloxone hydrochloride nasal spray is contraindicated in patients known to be hypersensitive to naloxone hydrochloride or to any of the other ingredients.

Parameter	2 mg- One Nasal Spray in one nostril 20 mg/ml (N=29)	4 mg - Two Nasal Sprays, one in each nostril 20 mg/ml (N=29)	4 mg – One Nasal Spray in one nostril 40 mg/ml (N=29)	8 mg -Two Nasal Sprays, one in each nostril 40 mg/ml (N=29)	0.4 mg Intramuscular Injection (N=29)
t _{max} (h) ⁷	0.33 (0.25, 1.00)	0.33 (0.17, 0.57)	0.50 (0.17, 1.00)	0.33 (0.17, 1.00)	0.38 (0.08, 2.05)
C _{max} (ng/mL)	2.91 (35)	6.30 (34)	4.83 (43)	9.70 (36)	0.88 (31)
AUCt (hr ng/mL)	4.60 (27)	9.64 (24)	7.87 (37)	15.3 (23)	1.75 (23)
AUC _{0-inf} (h*ng/mL)	4.66 (27)	9.74 (24)	7.95 (37)	15.5 (23)	1.79 (23)
t _{1/2} (h)	1.85 (33)	2.19 (33)	2.08 (30)	2.10 (32)	1.24 (26)
Dose normalized Relative BA (%) vs. IM	51.7 (22)	54.0 (23)	44.2 (31) ²	43.1 (24)	100

reported as median (minimum, maximum) 2. N=28 for Relative BA.





nostril (2 mg or 4 mg) or two nasal sprays as one spray in each nostril (4 mg or 8 mg) was not significantly different compared to the 0.4 mg dose of naloxone hydrochloride intramuscular injection (Table 1) The dose normalized relative bioavailability of one dose (2 mg or 4 mg) or two doses (4 mg or 8 mg) of naloxone hydrochloride nasal spray as compared to the 0.4 mg dose of naloxone hydrochloride administered by intramuscular njection was 52%, 44%, 54%, and 43%, respectively.

Distribution

Following parenteral administration, naloxone is distributed in the body and readily crosses the placenta. Plasma protein binding occurs but is relatively weak. Plasma albumin is the major binding constituent, but significant binding of naloxone also occurs to plasma constituents other than albumin. It is not known whether naloxone is excreted

Following a single intranasal administration of naloxone hydrochloride nasal spray (2 mg or 4 mg dose of naloxone hydrochloride), the mean plasma half-life of naloxone in healthy adults was approximately 1.85 (33% CV) hours and 2.08 (30% CV) hours; respectively, which was longer than that observed after administrations of a 0.4 mg naloxone orde intramuscular injection, where the half-life was 1.24 hours (26% CV). In a neonatal study of naloxoni orde intramuscular injection, where the half-life was 0.24 hours (26% CV). In a neonatal study of naloxoni orde injection, the mean $(\pm \text{ SD})$ plasma half-life was observed to be $3.1 (\pm 0.5)$ hours.

oxone hydrochloride is metabolized in the liver, primarily by glucuronide conjugation, with naloxone-3-glucoronic as the major metabolite.

After an oral or intravenous dose, about 25 to 40% of naloxone is excreted as metabolites in urine within 6 hours, about 50% in 24 hours, and 60 to 70% in 72 hours.

Carcinogenesis, Mutagenesis, Impairment of Fertility Long-term animal studies to evaluate the carcinogenic potential of naloxone have not been completed

marrow chromosome aberration study.

to mating and throughout gestation with the same doses of naloxone (up to 12-times a human dose of 8 mg/day (two naloxone hydrochloride nasal sprays) based on body surface area comparison). There was no adverse effect

HOW SUPPLIED/STORAGE AND HANDLING

lasal Spray 4 mg is supplied as a carton containing two blister packages (NDC 0093-2165-68) each with a single spray device. Naloxone Hydrochloride Nasal Spray is not made with natural rubber lates

Store below 77°F (25°C). Excursions permitted up to 104°F (40°C). Do not freeze or expose to excessive heat above

104°F (40°C). Protect from light. Naloxone Hydrochloride Nasal Spray freezes at temperatures below 5°F (-15°C). If this happens, the device will not spray. If Naloxone Hydrochloride Nasal Spray is frozen and is needed in an emergency, do NOT wait for Naloxone Hydrochloride Nasal Spray to thaw. Get emergency medical help right away. However, Naloxone Hydrochloride Nasal Spray may be thawed by allowing it to sit at room temperature for 15 minutes, and it may still be used if it has been

thawed after being previously frozen PATIENT COUNSELING INFORMATION Advise the patient and family members or caregivers to read the FDA-approved patient labeling (Patient Information

. Extreme somnolence - inability to awaken a patient verbally or upon a firm sternal rub · Respiratory depression - this can range from slow or shallow respiration to no respiration in a patient who is

Table 1 Mean Pharmacokinetic Parameters (CV%) for Naloxone Following Naloxone Hydrochloride Nasal Spray and Intramuscular Injection of Naloxone HCI to Healthy Subjects

agonists or mixed agonistic agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or mixed agonists or mixed agonistic agonists or mixed agonists or m

Instruct patients and their family members or caregivers that the use of naloxone hydrochloride nasal spray in patients who are opioid dependent may precipitate opioid withdrawal [see Warnings and Precautions (5.3), Adverse Administration Instructions
Instruct patients and their family members or caregivers to:

Precipitation of Severe Opioid Withdrawal

• Ensure naloxone hydrochloride nasal spray is present whenever persons may be intentionally or accidentally exposed to an opioid overdose (i.e., opioid emergencies). · Administer naloxone hydrochloride nasal spray as quickly as possible if a patient is unresponsive and an opioid

overdose is suspected, even when in doubt, because prolonged respiratory depression may result in damage to the central nervous system or death. Naloxone hydrochloride nasal spray is not a substitute for emergency medical care [see Dosage and Administration (2.1)]. · Lay the patient on their back and administer naloxone hydrochloride nasal spray into one nostril while providing

support to the back of the neck to allow the head to tilt back [see Dosage and Administration (2.1)]. Use each nasal spray only one time Isee Dosage and Administration (2.1)1. Turn patient on their side as shown in the Instructions for Use and call for emergency medical assistance immediately

neasures may be helpful while awaiting emergency medical assistance [see Dosage and Administration (2.1)]. Monitor patients and re-administer naloxone hydrochloride nasal spray using a new naloxone hydrochloride nasal spray every 2 to 3 minutes, if the patient is not responding or responds and then relapses back into respiratory depression. Administer naloxone hydrochloride nasal spray in alternate nostrils with each dose [see Dosage and Administration (2.1)]. Administration (2.1)].

after administration of the first dose of naloxone hydrochloride nasal spray. Additional supportive and/or resuscitative

· Replace naloxone hydrochloride nasal spray before its expiration date

Teva Pharmaceuticals USA, Inc. North Wales, PA 19454

PATIENT INFORMATION

Naloxone Hydrochloride (nal ox' one hye" droe klor' ide) Nasal Spray

provider about your medical condition or your treatment.

You and your family members or caregivers should read this Patient

What is the most important information I should know about naloxone hydrochloride nasal spray?

Naloxone hydrochloride nasal spray is used to temporarily reverse the effects of opioid medicines. The medicine in naloxone hydrochloride nasal spray has no effect in people who are not taking opioid medicines. Always carry naloxone hydrochloride nasal spray with you in case of an opioid emergency.

- Use naloxone hydrochloride nasal spray right away if you or your caregiver think signs or symptoms of an opioid emergency are | present, even if you are not sure, because an opioid emergency can cause severe injury or death. Signs and symptoms of an opioid emergency may include:
- · unusual sleepiness and you are not able to awaken the person with a loud voice or by rubbing firmly on the middle of their chest breathing problems including slow or shallow breathing in
- someone difficult to awaken or who looks like they are not the black circle in the center of the colored part of the eye (pupil)
- is very small, sometimes called "pinpoint pupils," in someone difficult to awaken Family members, caregivers, or other people who may have to use naloxone hydrochloride nasal spray in an opioid emergency should
- know where naloxone hydrochloride nasal spray is stored and how to give naloxone hydrochloride before an opioid emergency Get emergency medical help right away after giving the first dose
- of naloxone hydrochloride nasal spray. Rescue breathing or CPR (cardiopulmonary resuscitation) may be given while waiting for emergency medical help. The signs and symptoms of an opioid emergency can return after
- naloxone hydrochloride nasal spray is given. If this happens, give another dose after 2 to 3 minutes using a new naloxone hydrochloride nasal spray and watch the person closely until emergency help is received

What is naloxone hydrochloride nasal spray?

- Naloxone hydrochloride nasal spray is a prescription medicine used for the treatment of an opioid emergency such as an overdose or a possible opioid overdose with signs of breathing problems and severe sleepiness or not being able to respond.
- Naloxone hydrochloride nasal spray is to be given right away and does not take the place of emergency medical care. Get emergency medical help right away after giving the first dose of naloxone hydrochloride nasal spray, even if the person wakes up.
- Naloxone hydrochloride nasal spray is safe and effective in children for known or suspected opioid overdose. Who should not use naloxone hydrochloride nasal spray?

hydrochloride nasal spray. See the end of this leaflet for a complete list of ingredients in naloxone hydrochloride nasal spray.

What should I tell my healthcare provider before using naloxone hydrochloride nasal spray?

Before using naloxone hydrochloride nasal spray, tell your healthcare

provider about all of your medical conditions, including if you: have heart problems

are pregnant or plan to become pregnant. Use of naloxone hydrochloride nasal spray may cause withdrawal symptoms in your unborn baby. Your unborn baby should be examined by a healthcare provider right away after you use naloxone hydrochloride nasal spray.

are breastfeeding or plan to breastfeed. It is not known if naloxone hydrochloride passes into your breast milk.

Tell your healthcare provider about the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How should I use naloxone hydrochloride nasal spray? Read the "Instructions for Use" at the end of this Patient Information

leaflet for detailed information about the right way to use naloxone hydrochloride nasal spray. Use naloxone hydrochloride nasal spray exactly as prescribed by

- medicine and cannot be reused. Lay the person on their back. Support their neck with your hand and allow the head to tilt back before giving naloxone hydrochloride person's nose.
- nasal spray. Naloxone hydrochloride nasal spray should be given into one nostril. • If additional doses are needed, give naloxone hydrochloride nasal
- What are the possible side effects of naloxone hydrochloride nasal spray?

Naloxone hydrochloride nasal spray may cause serious side effects, including:

• Sudden opioid withdrawal symptoms. In someone who has been using opioids regularly, opioid withdrawal symptoms can happen suddenly after receiving naloxone hydrochloride nasal spray and may include:

 sneezing nervousness goose bumps restlessness or irritability

In infants under 4 weeks old who have been receiving opioids regularly, sudden opioid withdrawal may be life-threatening if not treated the right way. Signs and symptoms include: seizures, crying more than usual, and increased reflexes. These are not all of the possible side effects of naloxone hydrochloride

Information leaflet before an opioid emergency happens. This nasal spray. Call your doctor for medical advice about side effects. information does not take the place of talking with your healthcare You may report side effects to FDA at 1-800-FDA-1088

> How should I store naloxone hydrochloride nasal spray? Store below 77°F (25°C).

- Excursions permitted up to 104°F (40°C).
- Do not freeze or expose to excessive heat above 104°F (40°C).
- Keep naloxone hydrochloride nasal spray in its box until ready to use. Protect from light.
- Replace naloxone hydrochloride nasal spray before the expiration date on the box.

Keep naloxone hydrochloride nasal spray and all medicines out of the reach of children.

General information about the safe and effective use of naloxone

hydrochloride nasal spray. Medicines are sometimes prescribed for purposes other than those

listed in a Patient Information leaflet. Do not use naloxone hydrochloride nasal spray for a condition for which it was not prescribed. You can ask your pharmacist or healthcare provider for information about naloxone hydrochloride nasal spray that is written for health professionals. What are the ingredients in naloxone hydrochloride nasal spray?

Active ingredient: naloxone hydrochloride Inactive ingredients: benzalkonium chloride (preservative), edetate

disodium (stabilizer), sodium chloride, sodium hydroxide/hydrochloric acid to adjust pH, and purified water Naloxone hydrochloride nasal spray is not made with natural rubber latex.

Teva Pharmaceuticals USA, Inc., North Wales, PA 19454 For more information, go to www.tevagenerics.com or call 1-888-TEVAUSA (1-888-838-2872).

This Patient Information has been approved by the U.S. Food and Drug Administration. INSTRUCTIONS FOR USE

Naloxone Hydrochloride (nal ox' one hye" droe klor' ide) Nasal Spray You and your family members or caregivers should read the Instructions for Use that comes with naloxone hydrochloride nasal spray before using it. Talk

to your healthcare provider if you and your family members or caregivers

have any questions about the use of naloxone hydrochloride nasal spray. Use naloxone hydrochloride nasal spray for known or suspected opioid overdose in adults and children.

Important: For use in the nose only.

- Do not remove or test the naloxone hydrochloride nasal spray until ready to use.
- Each naloxone hydrochloride nasal spray has 1 dose and cannot be
- You do not need to prime naloxone hydrochloride nasal spray. How to use naloxone hydrochloride nasal spray:

Step 1. Lay the person on their back to receive a dose of naloxone hydrochloride nasal spray. **Do not use naloxone hydrochloride nasal spray** if you are allergic to naloxone hydrochloride or any of the ingredients in naloxone

Step 2. Remove naloxone hydrochloride **Nasal Spray** nasal spray from the box. Peel back the tab with the circle to open the naloxone hydrochloride nasal spray.





Note: Naloxone hydrochloride nasal spray freezes at temperatures below 5°F (-15°C). If this happens, the device will not spray. Get emergency medical help right away if this happens. Do not wait for naloxone hydrochloride nasal spray to thaw. Naloxone hydrochloride nasal spray may still be used if it has been thawed after being previously frozen.

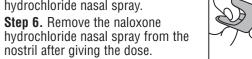
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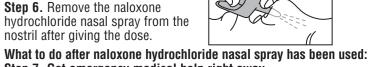
hydrochloride nasal spray with your thumb on the bottom of the plunger and your first and middle fingers on either side of the nozzle.

Step 3. Hold the naloxone

Step 4. Tilt the person's head back and provide support under the neck with your hand. Gently insert the tip • Each naloxone hydrochloride nasal spray contains only 1 dose of of the nozzle into one nostril until your fingers on either side of the nozzle are against the bottom of the

Step 5. Press the plunger firmly to give the dose of naloxone hydrochloride nasal spray.





Step 7. Get emergency medical help right away. Move the person on their side (recovery position) after giving

naloxone hydrochloride nasal` spray. • Watch the person closely.

 If the person does not respond by waking up, to voice or touch, or breathing normally another dose may be given. Naloxone hydrochloride nasal spray may be dosed every 2 to 3 minutes. if available.



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body aches

yawning o fever o nausea or vomiting o runny nose

spray in the other nostril.

increased blood pressure

o diarrhea sweating shivering or trembling o increased heart stomach cramping weakness

nasal spray to give another dose in the other nostril. If additional naloxone hydrochloride nasal sprays are available, Steps 2 through 6 may be repeated every 2 to 3 minutes until the person responds or emergency medical help is received.

Step 8. Put the used naloxone hydrochloride nasal spray back into

• Repeat Steps 2 through 6 using a new naloxone hydrochloride

its box.

Step 9. Throw away (dispose of) the used naloxone hydrochloride nasal spray in a place that is away from children.

How should I store naloxone hydrochloride nasal spray?

- Store below 77°F (25°C).
- Excursions permitted up to 104°F (40°C).
- Do not freeze or expose to excessive heat above 104°F (40°C).
- Keep naloxone hydrochloride nasal spray in the box until ready to use. Protect from light.
- Replace naloxone hydrochloride nasal spray before the expiration date on the box.

Keep naloxone hydrochloride nasal spray and all medicines out of the reach of children.

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