

Zurnai™ (nalmeфene injection)

1.5 mg/0.5 mL Auto-Injector

How to use the ZURNAl Auto-Injector

FOR REVERSAL OF SUSPECTED OPIOID OVERDOSE



INDICATIONS

What is ZURNAl?

- ZURNAl is a prescription medicine used in adults and children 12 years of age and older 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.
- ZURNAl 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 ZURNAl, even if the person wakes up.

It is not known if ZURNAl is safe and effective in children younger than 12 years of age for the emergency treatment of known or suspected opioid overdose.

IMPORTANT SAFETY INFORMATION

What is the most important information I should know about ZURNAl?

ZURNAl is used to temporarily reverse the effects of opioid medicines. The medicine in ZURNAl is not expected to have an effect in people who are not taking opioid medicines. Always carry ZURNAl with you in case of an opioid emergency.

Please see additional IMPORTANT SAFETY INFORMATION throughout and Full Prescribing Information and Patient Information.

ZURNAI IS INTENDED FOR USE IN AN OPIOID OVERDOSE EMERGENCY IN ADULTS AND CHILDREN AGED 12 AND OLDER



Important information you need to know before injecting ZURNAI

- The ZURNAI Auto-Injector is ready to use. Do not test or prime ZURNAI before use
- Each ZURNAI Auto-Injector contains 1 dose of medicine and cannot be reused
- Inject ZURNAI into the muscle (intramuscular) or underneath the skin (subcutaneous) of the outer thigh. Do not inject into any other area of the body

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAI? (cont)

Use ZURNAI 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 (sternum).

Check for signs of a suspected opioid overdose

Signs and symptoms of a potential overdose include:

- Unusual sleepiness
- Will not wake to a loud voice and/or will not wake to firmly rubbing the middle of their chest (sternum)
- Breathing problems
- Slow breathing or no breathing
- Shallow breaths
- The black circle in the middle of the eye (pupil) appears very small

If, based on these signs, you think someone has suffered an opioid overdose, it's time to administer ZURNAI.

Prepare to inject ZURNAI

Be sure the ZURNAI Auto-Injector is undamaged and ready for use:

- Check the auto-injector label to be sure you are injecting ZURNAI
- Check for any visible damage to the auto-injector before using
- Check the auto-injector to be sure the safety seal is not broken and the blue cap is secure and not missing
- Check the liquid through the viewing window before using. It should be clear, colorless to light yellow, and free of particles. You may see air bubbles. This is normal

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAI? (cont)

Signs and symptoms of an opioid emergency may include (cont):

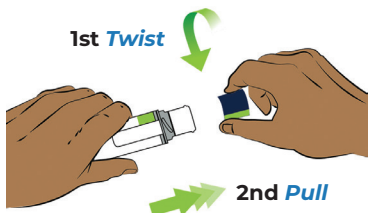
- breathing problems including slow or shallow breathing in someone difficult to awaken or who looks like they are not breathing.
- the black circle in the center of the colored part of the eye (pupil) is very small, sometimes called 'pinpoint pupils,' in someone difficult to awaken.

Please see additional IMPORTANT SAFETY INFORMATION throughout and Full Prescribing Information and Patient Information.

ADMINISTRATION

Refer to **Instructions for Use** for additional details.

1 Remove the blue cap



- Twist the blue cap counterclockwise to break the safety seal and pull straight off to remove the cap
- After the blue cap is removed, a few drops of liquid may appear on the needle end. This is normal
- ZURNAL must be used right away after the safety seal is broken and blue cap is removed. **Do not** replace the blue cap after it has been removed. If you do not use ZURNAL right away, see Step 5 for instructions on how to throw away ZURNAL
- **Do not** touch the needle end of the auto-injector after the blue cap is removed to prevent injury or accidental activation

2 Position and inject



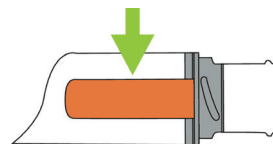
- Place the **needle guard** of the auto-injector against the **outer thigh**. The needle will inject through clothing
- Push the auto-injector firmly down against the outer thigh until you hear a “**click**” (the click indicates the start of the injection)
- **Hold** in place for **3 seconds**

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAL? (cont)

Family members, caregivers, or other people who may have to use ZURNAL in an opioid emergency should know where ZURNAL is stored and how to give ZURNAL before an opioid emergency happens. Make sure everyone reads the information contained in the carton as soon as you receive ZURNAL.

3 Inspect the viewing window



- After holding the auto-injector in place for 3 seconds, the viewing window should turn completely orange. A fully blocked (completely orange) window confirms the injection is complete
- Remove the auto-injector from the outer thigh
- **Do not** replace the blue cap after the injection
- If the viewing window is not fully blocked after injecting, repeat **Steps 1 to 3** using a new ZURNAL Auto-Injector

4 Call 911 and watch the person



- **Call 911** or get emergency medical help right away after the injection
- Move the person on their side (recovery position):
 - Hand is supporting their head
 - Bend their knee
 - Turn their face to the side
- **Watch** the person for response. **Wait for 2 to 5 minutes** to see if the person wakes up
- **If no response**, repeat **Steps 1 to 3** using a new ZURNAL Auto-Injector to give another dose
- If more ZURNAL Auto-Injectors are available, Steps 1 to 3 may be repeated every 2 to 5 minutes until the person responds or emergency medical help arrives
- **Stay** with the person until medical help arrives, even if the person wakes up

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAL? (cont)

Call 911 or get emergency medical help right away after giving the first dose of ZURNAL. Rescue breathing or CPR (cardiopulmonary resuscitation) may be given while waiting for emergency medical help.

Please see additional IMPORTANT SAFETY INFORMATION throughout and Full Prescribing Information and Patient Information.

ADMINISTRATION (cont)

5 Throw away (dispose of) the used ZURNAL Auto-Injector

- Put your used ZURNAL Auto-Injector in an FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) ZURNAL in your household trash
- If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:
 - Made of a heavy-duty plastic
 - Can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out
 - Upright and stable during use
 - Leak resistant
 - Properly labeled to warn of hazardous waste inside the container
- When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes
 - For more information about safe sharps disposal, and for specific information about sharps disposal in the state you live in, go to the FDA's website at: [fda.gov/SafeSharpsDisposal](https://www.fda.gov/SafeSharpsDisposal)
- Do not dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. Do not recycle your used sharps disposal container

Important: Always keep the sharps disposal container out of the reach of children.

FDA=US Food and Drug Administration.

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAL? (cont)

The signs and symptoms of an opioid emergency can return after ZURNAL is given. If this happens, give additional doses of ZURNAL every 2 to 5 minutes using a new ZURNAL auto-injector for each dose and watch the person closely until emergency help arrives.

Keep ZURNAL and all medicines out of the reach of children

STORING ZURNAL

Store ZURNAL at room temperature between 68°F to 77°F (20°C to 25°C).

- Do not freeze or refrigerate
- Store ZURNAL in a **clean, dry place**. Protect from light
- Keep ZURNAL **in the carton** until use
- During storage, check ZURNAL through the viewing window of the auto-injector **every 30 days**. The liquid should be clear, colorless to light yellow. If the ZURNAL liquid is discolored, cloudy, or contains solid particles, **replace it** with a new ZURNAL
- **Check the expiration date**. Replace ZURNAL before the expiration date

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAL? (cont)

Do not use ZURNAL if you are allergic to nalmeferene hydrochloride or any of the ingredients in ZURNAL.

Before using ZURNAL, tell your healthcare provider about all your medical conditions, including if you:

- have heart problems.
- are pregnant or plan to become pregnant. It is not known if ZURNAL will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if ZURNAL 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.

Please see additional IMPORTANT SAFETY INFORMATION throughout and Full Prescribing Information and Patient Information.

KEY FEATURES AND COMPONENTS

Safety seal

This device includes a safety seal that will break when the cap is removed.

Do not use the device if the safety seal is already broken or missing before use.

Administration instructions

Step-by-step instructions for administering ZURNAI are included on the body of the auto-injector.



Not actual size.

Expiration date

Check the expiration date. Replace ZURNAI before the expiration date.

Blue cap

Once the safety seal is broken and blue cap is removed, ZURNAI must be used immediately or disposed of properly.

Do not use if safety cap is missing or seal is broken.

Not actual size.



Viewing window

Liquid should be clear, colorless to light yellow, and free of particles. You may see air bubbles. This is normal.

Window turns orange when injection is complete.

Needle guard

Reduces chance of accidental needle stick.

- ZURNAI is not a substitute for emergency medical care

IMPORTANT SAFETY INFORMATION (cont)

What are the possible side effects of ZURNAI?

ZURNAI 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 ZURNAI and may include: body aches, diarrhea, increased heart rate, fever, runny nose, sneezing, goose bumps, sweating, yawning, nausea or vomiting, nervousness, restlessness or irritability, shivering or trembling, stomach cramping, weakness, and increased blood pressure.

IMPORTANT SAFETY INFORMATION (cont)

- **Risk of opioid overdose.** ZURNAI blocks the effects of opioids and may cause opioid withdrawal in someone who has been using opioids regularly. **Do not** take large amounts of opioids to try to overcome the opioid-blocking effects of ZURNAI. This could lead to an opioid overdose and death. Call 911 or get emergency medical help right away after using ZURNAI.

The most common side effects of ZURNAI include: feeling hot, nausea, headache, dizziness, chills, vomiting, feeling pain from things that are not usually painful (allodynia), irregular heartbeat (palpitations), ringing in the ear, ear discomfort, feeling abnormal, burning sensation, hot flush, and irritability.

These are not all the possible side effects of ZURNAI. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Please see additional IMPORTANT SAFETY INFORMATION throughout and Full Prescribing Information and Patient Information.

INDICATIONS

What is ZURNAI?

- ZURNAI is a prescription medicine used in adults and children 12 years of age and older 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.
- ZURNAI 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 ZURNAI, even if the person wakes up.

It is not known if ZURNAI is safe and effective in children younger than 12 years of age for the emergency treatment of known or suspected opioid overdose.

IMPORTANT SAFETY INFORMATION

What is the most important information I should know about ZURNAI?

ZURNAI is used to temporarily reverse the effects of opioid medicines. The medicine in ZURNAI is not expected to have an effect in people who are not taking opioid medicines. Always carry ZURNAI with you in case of an opioid emergency.

Use ZURNAI 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 (sternum).
- breathing problems including slow or shallow breathing in someone difficult to awaken or who looks like they are not breathing.
- 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 ZURNAI in an opioid emergency should know where ZURNAI is stored and how to give ZURNAI before an opioid emergency happens. Make sure everyone reads the information contained in the carton as soon as you receive ZURNAI.

Call 911 or get emergency medical help right away after giving the first dose of ZURNAI. Rescue breathing or CPR (cardiopulmonary resuscitation) may be given while waiting for emergency medical help.

IMPORTANT SAFETY INFORMATION (cont)

What is the most important information I should know about ZURNAI? (cont)

The signs and symptoms of an opioid emergency can return after ZURNAI is given. If this happens, give additional doses of ZURNAI every 2 to 5 minutes using a new ZURNAI auto-injector for each dose and watch the person closely until emergency help arrives.

Do not use ZURNAI if you are allergic to nalmeferene hydrochloride or any of the ingredients in ZURNAI.

Before using ZURNAI, tell your healthcare provider about all your medical conditions, including if you:

- have heart problems.
- are pregnant or plan to become pregnant. It is not known if ZURNAI will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if ZURNAI 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.

What are the possible side effects of ZURNAI?

ZURNAI 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 ZURNAI and may include: body aches, diarrhea, increased heart rate, fever, runny nose, sneezing, goose bumps, sweating, yawning, nausea or vomiting, nervousness, restlessness or irritability, shivering or trembling, stomach cramping, weakness, and increased blood pressure.
- **Risk of opioid overdose.** ZURNAI blocks the effects of opioids and may cause opioid withdrawal in someone who has been using opioids regularly. **Do not** take large amounts of opioids to try to overcome the opioid-blocking effects of ZURNAI. This could lead to an opioid overdose and death. Call 911 or get emergency medical help right away after using ZURNAI.

The most common side effects of ZURNAI include: feeling hot, nausea, headache, dizziness, chills, vomiting, feeling pain from things that are not usually painful (allodynia), irregular heartbeat (palpitations), ringing in the ear, ear discomfort, feeling abnormal, burning sensation, hot flush, and irritability.

These are not all the possible side effects of ZURNAI. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Please see the [Full Prescribing Information](#) and [Patient Information](#).

Zurnai™ (nalmeferene injection)

1.5 mg/0.5 mL Auto-Injector

LEARN MORE ABOUT HOW TO USE ZURNAI

Visit [ZURNAI.com](https://www.zurnai.com) or scan this code to see detailed instructions



INDICATIONS

What is ZURNAI?

- ZURNAI is a prescription medicine used in adults and children 12 years of age and older 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.
- ZURNAI 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 ZURNAI, even if the person wakes up.

It is not known if ZURNAI is safe and effective in children younger than 12 years of age for the emergency treatment of known or suspected opioid overdose.

IMPORTANT SAFETY INFORMATION

What is the most important information I should know about ZURNAI?

ZURNAI is used to temporarily reverse the effects of opioid medicines. The medicine in ZURNAI is not expected to have an effect in people who are not taking opioid medicines. Always carry ZURNAI with you in case of an opioid emergency.

Please see additional IMPORTANT SAFETY INFORMATION throughout and [Full Prescribing Information](#) and [Patient Information](#).

We are committed to maintaining the highest standards of sales and marketing practices, while continuing to advance the proper treatment of patients. If you have any questions or concerns with our sales and marketing practices, please contact us at 1-877-787-3831.



©2026 Knoa Pharma LLC. All Rights Reserved.
Intended for residents of the United States only.
MR-08782 v2 05/26