PATIENT & CAREGIVER EDUCATION

Budesonide, Glycopyrrolate, and Formoterol

This information from UpToDate® Lexidrug™ explains what you need to know about this medication, including what it's used for, how to take it, its side effects, and when to call your healthcare provider.

Brand Names: US

Breztri Aerosphere

Brand Names: Canada

Breztri Aerosphere

What is this drug used for?

- It is used to treat asthma.
- Do not use this drug to treat intense flare-ups of shortness of breath. Use a rescue inhaler (quick relief inhaler). If you have questions, talk with the doctor.

What do I need to tell the doctor BEFORE my child takes this drug?

- If your child is allergic to this drug; any part of this drug; or any other drugs, foods, or substances. Tell the doctor about the allergy and what signs your child had.
- If your child is using another drug like this one. If you are not sure, ask your child's doctor or pharmacist.
- If your child takes other drugs called anticholinergics, like ipratropium or

oxybutynin. Ask the doctor if you are not sure if any of your child's drugs are anticholinergic.

This is not a list of all drugs or health problems that interact with this drug.

Tell the doctor and pharmacist about all of your child's drugs (prescription or OTC, natural products, vitamins) and health problems. You must check to make sure that it is safe to give this drug with all of your child's other drugs and health problems. Do not start, stop, or change the dose of any drug your child takes without checking with the doctor.

What are some things I need to know or do while my child takes this drug?

- Tell all of your child's health care providers that your child is taking this drug. This includes your child's doctors, nurses, pharmacists, and dentists.
- Call the doctor right away if your child has breathing problems that get worse, if the rescue inhaler (quick relief inhaler) does not work as well, or if your child needs to use the rescue inhaler more often.
- If your child has high blood sugar (diabetes), this drug may sometimes raise blood sugar. Talk with your child's doctor about how to keep your child's blood sugar under control.
- Have your child get a bone density test as you have been told by your child's doctor.
- Get your child an eye exam if they are on this drug for a long time. Talk with your child's doctor.
- If your child has been taking this drug for many weeks, talk with your child's doctor before stopping. You may want to slowly stop this drug.
- Do not give more of this drug or have your child use it more often than you were told by the doctor. Deaths have happened when too much of this drug was taken. Talk with the doctor.
- If this drug gets in the eyes, rinse with water right away. Call the doctor right away if this drug gets in the eyes and blurred eyesight, worsened glaucoma,

or eye pain happens.

- This drug contains formoterol. When drugs like formoterol are used without an inhaled steroid to treat asthma, the risk of hospital stays and deaths from asthma problems may be higher. This drug also contains an inhaled steroid.
- Your child may have more chance of getting infections. Have your child wash hands often. Avoid crowds and people with infections, colds, or flu.
- Chickenpox and measles can be very bad or even deadly in some people taking steroid drugs like this drug. Avoid having your child near anyone with chickenpox or measles if your child has not had these health problems before. If your child has been exposed to chickenpox or measles, talk with the doctor.
- When changing from an oral steroid to another form of steroid, there may be severe and sometimes deadly side effects. Signs like weakness, feeling tired, dizziness, upset stomach, throwing up, confusion, or low blood sugar may happen. Call the doctor right away if your child has any of these signs. If your child has a bad injury, has surgery, or any type of infection, they may need extra doses of oral steroids. These extra steroids will help your child's body deal with these stresses. Have your child wear medical alert ID (identification).
- This drug may cause weak bones (osteoporosis) with long-term use. Talk with the doctor to see if your child has a higher chance of weak bones, or if you have any questions.
- Long-term use may raise the chance of cataracts or glaucoma. Talk with the doctor.
- This drug may affect growth in children and teens in some cases. They may need regular growth checks. Talk with the doctor.

If your child is pregnant or breast-feeding a baby:

- Talk with the doctor if your child is pregnant, becomes pregnant, or is breast-feeding a baby. You will need to talk about the benefits and risks to your child and the baby.

What are some side effects that I need to call my child's doctor about right away?

WARNING/CAUTION: Even though it may be rare, some people may have very bad and sometimes deadly side effects when taking a drug. Tell your child's doctor or get medical help right away if your child has any of the following signs or symptoms that may be related to a very bad side effect:

- Signs of an allergic reaction, like rash; hives; itching; red, swollen, blistered, or peeling skin with or without fever; wheezing; tightness in the chest or throat; trouble breathing, swallowing, or talking; unusual hoarseness; or swelling of the mouth, face, lips, tongue, or throat.
- Signs of low potassium levels like muscle pain or weakness, muscle cramps, or a heartbeat that does not feel normal.
- Signs of high blood pressure like very bad headache or dizziness, passing out, or change in eyesight.
- Signs of high blood sugar like confusion, feeling sleepy, unusual thirst or hunger, passing urine more often, flushing, fast breathing, or breath that smells like fruit.
- Signs of infection like fever, chills, very bad sore throat, ear or sinus pain, cough, more sputum or change in color of sputum, pain with passing urine, mouth sores, or wound that will not heal.
- Signs of a weak adrenal gland like a severe upset stomach or throwing up, severe dizziness or passing out, muscle weakness, feeling very tired, mood changes, decreased appetite, or weight loss.
- Signs of Cushing's syndrome like weight gain in the upper back or belly, moon face, severe headache, or slow healing.
- Chest pain or pressure.
- Fast or abnormal heartbeat.
- Shakiness.
- Change in eyesight, eye pain, or severe eye irritation.
- Seeing halos or bright colors around lights.

- Red eyes.
- Trouble passing urine, pain when passing urine, passing urine in a weak stream or drips, or passing urine more often.
- Bone or joint pain.
- Redness or white patches in mouth or throat.
- Depression.
- Restlessness.
- This drug can cause very bad breathing problems right after your child takes a dose. Sometimes, this may be life-threatening. If your child has trouble breathing, breathing that is worse, wheezing, or coughing after using this drug, have your child use a rescue inhaler (quick relief inhaler) and get medical help right away.

What are some other side effects of this drug?

All drugs may cause side effects. However, many people have no side effects or only have minor side effects. Call your child's doctor or get medical help if any of these side effects or any other side effects bother your child or do not go away:

- Signs of a common cold.
- Nose or throat irritation.
- Hoarseness.
- Sinus pain.
- Back pain.
- Flu-like signs.
- Muscle spasm.
- Diarrhea.
- Feeling nervous and excitable.
- Anxiety.
- Trouble sleeping.

- Dizziness or headache.

These are not all of the side effects that may occur. If you have questions about side effects, call your child's doctor. Call your child's doctor for medical advice about side effects.

You may report side effects to your national health agency.

How is this drug best given?

Give this drug as ordered by your child's doctor. Read all information given to you. Follow all instructions closely.

- For breathing in only by an inhaler into the lungs.
- Prime before first use by spraying it 4 times away from the face. Shake well before each spray. If the inhaler has been dropped or has not been used for more than 7 days, prime again by spraying it 2 times away from the face.
- Shake well before use.
- Only use the device that comes with this drug. Do not use any other devices.
- Put the cap back on after your child is done using a dose.
- Have your child rinse out the mouth after each use. Do not let your child swallow the rinse water. Have your child spit it out.
- If your child is using more than 1 inhaled drug, ask your child's doctor which inhaled drug to give first.
- Follow how to clean the inhaler as you have been told. Do this at least every 7 days. You will need to prime again after cleaning.
- This inhaler has a dose indicator to keep track of how many doses are left. The pointer will move after every puff. When it is close to the end of puffs in the inhaler, the pointer will be in the yellow area. Throw away the inhaler when the pointer is at "0", which is in the red area.
- Keep giving this drug to your child as you have been told by your child's doctor or other health care provider, even if your child feels well.

What do I do if my child misses a dose?

- Give a missed dose as soon as you think about it.
- If it is close to the time for your child's next dose, skip the missed dose and go back to your child's normal time.
- Do not give 2 doses at the same time or extra doses.

How do I store and/or throw out this drug?

- Store at room temperature.
- Protect from heat and sunlight. Do not puncture or burn even if it seems empty.
- Store in the unopened foil pouch until ready for use. For the **120-inhalation canister**, throw away 3 months after opening the foil pouch or when the pointer reaches "0", whichever comes first. For the **28-inhalation canister**, throw away 3 weeks after opening the foil pouch or when the pointer reaches "0", whichever comes first.
- Keep all drugs in a safe place. Keep all drugs out of the reach of children and pets.
- Throw away unused or expired drugs. Do not flush down a toilet or pour down a drain unless you are told to do so. Check with your pharmacist if you have questions about the best way to throw out drugs. There may be drug take-back programs in your area.

General drug facts

- If your child's symptoms or health problems do not get better or if they become worse, call your child's doctor.
- Do not share your child's drug with others and do not give anyone else's drug to your child.
- Some drugs may have another patient information leaflet. If you have any questions about this drug, please talk with your child's doctor, nurse, pharmacist, or other health care provider.

- If you think there has been an overdose, call your poison control center or get medical care right away. Be ready to tell or show what was taken, how much, and when it happened.

Consumer Information Use and Disclaimer

This generalized information is a limited summary of diagnosis, treatment, and/or medication information. It is not meant to be comprehensive and should be used as a tool to help the user understand and/or assess potential diagnostic and treatment options. It does NOT include all information about conditions, treatments, medications, side effects, or risks that may apply to a specific patient. It is not intended to be medical advice or a substitute for the medical advice, diagnosis, or treatment of a health care provider based on the health care provider's examination and assessment of a patient's specific and unique circumstances. Patients must speak with a health care provider for complete information about their health, medical questions, and treatment options, including any risks or benefits regarding use of medications. This information does not endorse any treatments or medications as safe, effective, or approved for treating a specific patient. UpToDate, Inc. and its affiliates disclaim any warranty or liability relating to this information or the use thereof. The use of this information is governed by the Terms of Use, available at https://www.wolterskluwer.com/en/know/clinical-effectiveness-terms.

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If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit www.mskcc.org/pe to search our virtual library.

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