Additional resources for managing your high blood pressure

For more resources, visit:

- [www.heart.org](http://www.heart.org)—The American Heart Association’s online educational resource
- [https://www.nhlbi.nih.gov/health-topics/high-blood-pressure](https://www.nhlbi.nih.gov/health-topics/high-blood-pressure)—The National Heart, Lung, and Blood Institute’s guide to lowering high blood pressure

Learn more at: [www.BYSTOLIC.com](http://www.BYSTOLIC.com)

Who should NOT take BYSTOLIC?

Do not take BYSTOLIC if you:

- Have heart failure and are in the ICU or need medicines to keep up your blood circulation.
- Have a slow heartbeat or your heart skips beats (irregular heartbeat)
- Have severe liver damage
- Are allergic to any ingredient in BYSTOLIC. The active ingredient is nebivolol.

Please see Important Risk Information about BYSTOLIC on pages 7-9, and accompanying full Prescribing Information.
The facts about high blood pressure

High blood pressure is a potentially serious condition that affects about **103 million Americans**. In fact, as many as 1 in 2 adults (46%) has high blood pressure.

People with high blood pressure are at risk for heart disease and other serious health problems. **Yet, it's possible to have the condition for years without knowing it.**

If you have been diagnosed with high blood pressure, this brochure will help you learn more about the condition, as well as provide tips that may help you manage it.
What does high blood pressure mean for you?

If you have high blood pressure, your healthcare professional may have already explained how important it is to take control and manage it. Ultimately, if left uncontrolled, high blood pressure may eventually lead to heart attack, stroke, or other serious health problems.

Risk factors associated with high blood pressure

An important part of managing high blood pressure is identifying and understanding the potential risk factors. Risk factors are behaviors or conditions that increase the potential for developing high blood pressure. According to the National Heart, Lung, and Blood Institute, these include:

- Being overweight or obese
- Older age
- Family history of high blood pressure
- Race/ethnicity
- Gender
- Unhealthy lifestyle

Lowering your blood pressure can lower your chance of having a heart attack or stroke.
What you should know about high blood pressure

What is high blood pressure (hypertension)?
Blood pressure is the force produced in the blood vessels when the heart beats and rests. When this force becomes too great, high blood pressure may result. With high blood pressure, the heart works harder to pump blood throughout the body. In turn, this may damage blood vessels and other organs, and may even cause a heart attack or stroke. Medicines that lower blood pressure may also lower your chances of having a stroke or heart attack. But, if blood pressure remains high over time, damage may occur.

Know what your blood pressure numbers mean
Blood pressure is the combination of systolic (sis-TOL-ik) and diastolic (di-a-STOL-ik) blood pressure.

<table>
<thead>
<tr>
<th>SYSTOLIC PRESSURE</th>
<th>This is the pressure in your blood vessels when the heart beats (the top number)</th>
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<tr>
<td>SBP</td>
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</table>

<table>
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<tr>
<th>DBP</th>
<th>This is the pressure in your blood vessels when the heart rests between beats (the bottom number)</th>
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</thead>
<tbody>
<tr>
<td>DIASTOLIC PRESSURE</td>
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</table>

An example of a blood pressure reading is 120/80 mm Hg (or millimeters of mercury, the usual measure for blood pressure), which your doctor would read as “120 over 80.”
The categories of blood pressure

The categories shown below include normal blood pressure in adults and levels considered to be too high. High levels may be a sign of a risk for health problems. These are general categories of blood pressure. You should talk to your doctor about your blood pressure and discuss if it is high or too low for you.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>NORMAL</strong></td>
<td>Blood pressure that is less than 120 and less than 80 is considered normal</td>
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<tr>
<td>&lt;120&lt;80</td>
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<tr>
<td><strong>ELEVATED</strong></td>
<td>If your SBP and DBP numbers are within this range, you do not have high blood pressure yet, but your odds of developing it may increase</td>
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<tr>
<td>120-129&lt;80</td>
<td></td>
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<tr>
<td><strong>STAGE I HYPERTENSION</strong></td>
<td>You are considered to have high blood pressure when your SBP and DBP numbers are within these ranges</td>
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<tr>
<td>130-13980-89</td>
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<tr>
<td><strong>STAGE II HYPERTENSION</strong></td>
<td>Numbers 140 and greater for SBP or 90 and greater for DBP are considered stage II hypertension</td>
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<tr>
<td>&gt;140&gt;90</td>
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<tr>
<td><strong>HYPERTENSIVE CRISIS</strong></td>
<td>Numbers greater than 180 for SBP and/or numbers greater than 120 for DBP are considered hypertensive crisis</td>
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<td>&gt;180&gt;120</td>
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Your doctor should evaluate unusually low blood pressure readings.
What is BYSTOLIC?

BYSTOLIC is a prescription medicine that belongs to a group of medicines called “beta blockers.” BYSTOLIC is used, often with other medicines, to treat adults with high blood pressure (hypertension). BYSTOLIC is not approved for use in children under 18 years of age.

- BYSTOLIC can be taken alone or with other high blood pressure medicines to reduce blood pressure
- BYSTOLIC was shown to provide blood pressure reductions when it was used alone
- BYSTOLIC also helped reduce blood pressure when it was taken with certain other blood pressure-lowering medications

How may BYSTOLIC help lower your blood pressure?

While it is not known exactly how BYSTOLIC works, BYSTOLIC is a beta blocker that may reduce blood pressure through several factors, including blocking a chemical that stimulates the heart muscle to beat more slowly and less forcefully. Other factors that are also thought to contribute to how BYSTOLIC works include reducing certain substances released by the kidneys and the brain believed to contribute to high blood pressure and relaxing the blood vessels so the blood flows more easily.

Within the last decade, BYSTOLIC has been studied in many clinical trials. BYSTOLIC has demonstrated efficacy in Black, Caucasian, Hispanic, older and younger adults, and male and female patients with Stage I and Stage II hypertension (high blood pressure).

BYSTOLIC lowered diastolic blood pressure (the bottom number) and systolic blood pressure (the top number) when taken alone.

BYSTOLIC can also help people already taking blood pressure medications, but whose diastolic and systolic numbers haven’t dropped enough. Additional blood pressure reductions were seen in people who took BYSTOLIC with angiotensin-converting enzyme inhibitors (ACEIs), angiotensin II receptor blockers (ARBs), and/or diuretics. (Please see page 10 for more information about these kinds of medicines.)

For most people, BYSTOLIC is taken once a day, alone or with other high blood pressure medicines, and with or without food. As with any medication, follow your doctor’s instructions when taking BYSTOLIC. Generally, most people starting on BYSTOLIC will take 5 mg, once daily. Your doctor might increase your dose if you need greater blood pressure reduction.

Please see Important Risk Information about BYSTOLIC on pages 7-9, and accompanying full Prescribing Information.
Talk to your doctor to see if BYSTOLIC is right for you

People who took BYSTOLIC had a low incidence of side effects. Fewer than 3% of patients stopped taking BYSTOLIC because of side effects.

In studies with BYSTOLIC, the five most common side effects were headache, fatigue, dizziness, diarrhea, and nausea.

Patients on blood pressure medications, including BYSTOLIC, may experience side effects. If you’re taking medication for high blood pressure, remember to observe and discuss with your doctor any changes you experience, including medication side effects.

Important Risk Information about BYSTOLIC

Who should NOT take BYSTOLIC?

Do not take BYSTOLIC if you:

■ Have heart failure and are in the ICU or need medicines to keep up your blood circulation.
■ Have a slow heartbeat or your heart skips beats (irregular heartbeat)
■ Have severe liver damage
■ Are allergic to any ingredient in BYSTOLIC. The active ingredient is nebivolol.

What should I tell my healthcare provider before taking BYSTOLIC?

Before starting BYSTOLIC, tell your healthcare provider about all of your medical conditions, including if you

■ Have asthma or other lung problems (such as bronchitis or emphysema)
■ Have problems with blood flow in your feet and legs (peripheral vascular disease). BYSTOLIC can make symptoms of blood flow problems worse.
■ Have diabetes and take medicine to control blood sugar
■ Have thyroid problems
■ Have liver or kidney problems
■ Have had allergic reactions to medications or have allergies
Important Risk Information about BYSTOLIC (continued)

- Have a condition called pheochromocytoma (rare adrenal gland tumor)
- Are pregnant or trying to become pregnant. It is not known if BYSTOLIC is safe for your unborn baby. Talk with your doctor about the best way to treat your high blood pressure while you are pregnant.
- Are breastfeeding. It is not known if BYSTOLIC passes into your breast milk. You should not breastfeed while using BYSTOLIC.
- Are scheduled for surgery and will be given anesthetic agents
- Have had acute angina (symptoms include chest pain or discomfort) or an MI (heart attack) as BYSTOLIC has not been studied in patients with these conditions.

Also, to avoid a potentially serious or life-threatening condition, tell your healthcare provider if you are taking or plan to take any prescription or over-the-counter medications, vitamins, or herbal products, including:

- Certain CYP2D6 inhibitors (such as some antiarrhythmics like quinidine or propafenone or certain antidepressants such as fluoxetine or paroxetine, etc).
- Other beta blockers
- Digitalis
- Certain calcium channel blockers (such as verapamil and diltiazem)
- Antiarrhythmic agents (such as disopyramide)

Please see Important Risk Information about BYSTOLIC on pages 7-9, and accompanying full Prescribing Information.
Important Risk Information about BYSTOLIC (continued)

What are possible side effects of BYSTOLIC?
The most common side effects people taking BYSTOLIC report are headache, fatigue (tiredness), dizziness (if you feel dizzy, sit or lie down and tell your doctor right away), diarrhea, nausea, insomnia (difficulty falling or staying asleep), chest pain, bradycardia (slow heartbeat), dyspnea (shortness of breath), rash, and peripheral edema (leg swelling due to fluid retention). Other possible side effects include masking (hiding) the symptoms of low blood sugar and hyperthyroidism (overactive thyroid), especially a fast heartbeat. Tell your doctor if you gain weight or have trouble breathing while taking BYSTOLIC.

This is not a complete list of side effects. Tell your doctor if you have any side effects that bother you or don’t go away.

What other information do I need to know about taking BYSTOLIC?

■ Do not stop taking BYSTOLIC suddenly. You could have chest pain or a heart attack. If your doctor decides that you should stop taking BYSTOLIC, he or she will lower your dose slowly and over time.

■ Take BYSTOLIC every day exactly as your doctor tells you.
  Your doctor will tell you how much BYSTOLIC to take and how often. Your doctor may start with a low dose and raise it over time.

■ Do not stop taking BYSTOLIC or change your dose without talking with your doctor.

■ BYSTOLIC can be taken with or without food.

■ If you miss a dose, take your dose as soon as you remember, unless it is close to the time to take your next dose. Do not take 2 doses at the same time. Take your next dose at the usual time.

■ If you take too much BYSTOLIC, call your doctor or poison control center right away.
Your treatment plan may include other medicines

Adequate blood pressure control may require more than one kind of medicine. In fact, many people with high blood pressure take two or more medications. The following is a list of high blood pressure medications that may be prescribed. Ask your healthcare professional for additional information, if needed.

High blood pressure medications:

- **Beta Blockers** are thought to reduce blood pressure by blocking a chemical that stimulates the heart. This allows the heart to beat more slowly and less forcefully, which ultimately reduces blood pressure.

- **Diuretics**, also known as “water pills,” help your body rid itself of unneeded water and salt through the urine. Removing excess salt and fluid helps lower blood pressure and can make it easier for your heart to pump blood.

- **Angiotensin-Converting Enzyme Inhibitors (ACEIs)** help blood vessels relax by blocking the production of a hormone called angiotensin, which causes blood vessels to narrow.

- **Angiotensin II Receptor Blockers (ARBs)** allow blood vessels to widen by preventing angiotensin from affecting the vessels.

- **Calcium Channel Blockers (CCBs)** help blood vessels relax by decreasing the amount of calcium entering blood vessel walls and heart muscle.

Get the conversation started about blood pressure medicine

Never hesitate to ask your doctor about what’s on your mind—whether it’s your blood pressure, the medications you need, or the medications you’re already taking. Here are a few questions to get the conversation started.

- What is my current blood pressure? What is my blood pressure goal?
- Do I have to take my medication at the same time each day?
- Are there other blood pressure medications available aside from what I am currently taking?
- I feel fine. Do I still have to take my medicine?
- What else can I do to help lower my blood pressure?
Helpful tips to manage your blood pressure

Aside from taking medicine, lifestyle changes can help lower blood pressure and reduce the risk of developing heart disease. Below are general tips for lifestyle changes. But it’s important to work with your doctor to determine a plan that’s right for you and to stick with it.

■ Maintain a healthy weight—If you’re overweight or obese, work with your doctor to plan a healthy weight loss routine

■ Be physically active—Stay active throughout the week (make sure to discuss with your doctor what level of activity is right for you)

■ Stick to a healthy eating plan—Follow a healthy, low-fat diet with plenty of fruits, vegetables, and whole grains. Try to reduce the amount of foods you eat that are rich in saturated, trans, and total fat

■ Reduce your sodium intake—Reduce your salt intake to no more than 2300 mg per day (1 teaspoonful of table salt). Avoid high-sodium processed and prepared foods and look for low-sodium or sodium-free alternatives for your meals

■ Limit alcohol intake—Limit consumption to no more than two drinks per day for most men and to no more than one drink per day for women and lighter-weight persons
Helpful tips to manage your blood pressure (continued)

Simple steps to a healthier diet
Following a healthy diet can be easier than you think. You can begin with basic steps like cutting out excess salt and following the DASH (Dietary Approaches to Stop Hypertension) eating plan (outlined below).

The DASH eating plan emphasizes fruits, vegetables, and fat-free or low-fat milk and milk products. This plan also includes whole-grain products, fish, poultry, and nuts.

Get started with these easy, nutritious substitutions for your favorite snacks

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<tr>
<th>Instead of:</th>
<th>Try:</th>
<th>Spice them up with:</th>
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<tr>
<td>Cookies</td>
<td>Apple slices</td>
<td>Powdered cinnamon, nutmeg, or ginger</td>
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<tr>
<td>Potato chips</td>
<td>Unsalted almonds</td>
<td>Curry powder, onion/garlic powder, allspice</td>
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<tr>
<td>Ice cream</td>
<td>Low-fat yogurt</td>
<td>A topping of fresh fruit</td>
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<tr>
<td>Soda or other soft drinks</td>
<td>Club soda</td>
<td>Lemon or fresh fruit slices</td>
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</tbody>
</table>
Getting started and staying active

It takes just 30 minutes of physical activity on most days to become physically active. The 30 minutes can be divided into periods of 10 minutes at a time. Some simple ways to start include:

- Taking the stairs instead of the elevator or escalator
- Getting off the bus or train a stop or two early and walking the remaining distance
- Parking your car farther away from your home or office
- Dancing at a fast pace
- Raking leaves or gardening

Don’t forget to talk with your doctor before changing your daily routine. You should check with your doctor if you have heart trouble or have had a heart attack, if you are over 50 years of age and are not used to moderate-level physical activity, or if you have other health problems.
# My Medical Contacts

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<th>Doctor:</th>
<th>Specialty:</th>
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# My Personal Medication Record

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<th>What I’m Taking</th>
<th>Form (pill, patch, liquid, etc)</th>
<th>Reason for Use</th>
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<th>How Much &amp; When</th>
<th>Notes and Special Directions</th>
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How to track your blood pressure

Remember these three letters to help track and manage your blood pressure:

LEARN about high blood pressure, including how it affects you, and available treatments

OBSERVE and discuss with your doctor any changes you may be feeling, including medication side effects

WORK with your doctor to determine what you can do to manage your blood pressure

Once your doctor has determined you have high blood pressure, it’s important to keep track of any changes you experience: changes to your numbers, changes to your overall health, and medication side effects.

My blood pressure goal is: _____________________ mm Hg

Today’s date is: __________ / __________ / __________

Today my blood pressure is: _____________________ mm Hg

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>SBP</th>
<th>DBP</th>
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<tr>
<td>Feb 15</td>
<td>10 AM</td>
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<td>Date</td>
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Additional resources for managing your high blood pressure

For more resources, visit:

- www.heart.org—The American Heart Association’s online educational resource
- https://www.nhlbi.nih.gov/health-topics/high-blood-pressure—The National Heart, Lung, and Blood Institute’s guide to lowering high blood pressure
- https://www.nhlbi.nih.gov/files/docs/public/heart/dash_brief.pdf—A free, downloadable, comprehensive guide to the DASH eating plan, including sample menus and recipes

If you have high blood pressure, ask your doctor if adding BYSTOLIC may be an appropriate option to consider.

Learn more at: www.BYSTOLIC.com

Who should NOT take BYSTOLIC?

Do not take BYSTOLIC if you:

- Have heart failure and are in the ICU or need medicines to keep up your blood circulation.
- Have a slow heartbeat or your heart skips beats (irregular heartbeat)
- Have severe liver damage
- Are allergic to any ingredient in BYSTOLIC. The active ingredient is nebivolol.

Please see Important Risk Information about BYSTOLIC on pages 7-9, and accompanying full Prescribing Information.
Additional resources for managing your high blood pressure

For more resources, visit:

- [www.heart.org](http://www.heart.org)—The American Heart Association’s online educational resource
- [https://www.nhlbi.nih.gov/health-topics/high-blood-pressure](https://www.nhlbi.nih.gov/health-topics/high-blood-pressure)—The National Heart, Lung, and Blood Institute’s guide to lowering high blood pressure

If you have high blood pressure, ask your doctor if adding BYSTOLIC may be an appropriate option to consider.

Learn more at: [www.BYSTOLIC.com](http://www.BYSTOLIC.com)

Who should NOT take BYSTOLIC?
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Please see Important Risk Information about BYSTOLIC on pages 7-9, and accompanying full Prescribing Information.

Do you have high blood pressure?

Find out how BYSTOLIC may be able to help

What is BYSTOLIC?
BYSTOLIC is a prescription medicine that belongs to a group of medicines called “beta blockers.” BYSTOLIC is used, often with other medicines, to treat adults with high blood pressure (hypertension). BYSTOLIC is not approved for use in children under 18 years of age.

Important Risk Information
Do not take BYSTOLIC if you:

- Have heart failure and are in the ICU or need medicines to keep up your blood circulation.
- Have a slow heartbeat or your heart skips beats (irregular heartbeat)
- Have severe liver damage
- Are allergic to any ingredient in BYSTOLIC. The active ingredient is nebivolol.

Please see additional Important Risk Information about BYSTOLIC on pages 7-9, and accompanying full Prescribing Information.
BYSTOLIC® (nebivolol) tablets, for oral use
Initial U.S. Approval: 2007

---INDICATIONS AND USAGE---

BYSTOLIC is a beta-adrenergic blocking agent indicated for the treatment of hypertension, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. (1.1)

---DOSE AND ADMINISTRATION---

Can be taken with and without food. Individualize to the needs of the patient and monitor during up-titration. (2)

- Hypertension: Most patients start at 5 mg once daily. Dose can be increased at 2-week intervals up to 40 mg. (2.1)

---DOSE FORMS AND STRENGTHS---

Tablets: 2.5, 5, 10, 20 mg (3)

---CONTRAINDICATIONS---

- Severe bradycardia (4)
- Heart block greater than first degree (4)
- Patients with cardiogenic shock (4)
- Decompensated cardiac failure (4)
- Sick sinus syndrome (unless a permanent pacemaker is in place) (4)
- Patients with severe hepatic impairment (Child-Pugh >B) (4)
- Hypersensitive to any component of this product (4)

---WARNINGS AND PRECAUTIONS---

- Acute exacerbation of coronary artery disease upon cessation of therapy: Do not abruptly discontinue. (5.1)
- Diabetes: Monitor glucose as β-blockers may mask symptoms of hypoglycemia. (5.5)

---ADVERSE REACTIONS---

Most common adverse reactions (6.1):
- Headache, fatigue

To report SUSPECTED ADVERSE REACTIONS, Contact Allergan at 1-800-678-1605 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

---DRUG INTERACTIONS---

- CYP2D6 enzyme inhibitors may increase nebivolol levels. (7.1)
- Reserpine or clonidine may produce excessive reduction of sympathetic activity. (7.2)
- Both digitalis glycosides and β-blockers slow atrioventricular conduction and decrease heart rate. Concomitant use can increase the risk of bradycardia. (7.3)
- Verapamil- or diltiazem-type calcium channel blockers may cause excessive reductions in heart rate, blood pressure, and cardiac contractility. (7.4)

---USE IN SPECIFIC POPULATIONS---

- Lactation: Breastfeeding is not recommended. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 01/2019

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2. DOSAGE AND ADMINISTRATION

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4. CONTRAINDICATIONS

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*Sections or subsections omitted from the full prescribing information are not listed.

---FULL PRESCRIBING INFORMATION---

BYSTOLIC is a beta-adrenergic blocking agent indicated for the treatment of hypertension, to lower blood pressure [see Clinical Studies (14.1)]. BYSTOLIC may be used alone or in combination with other antihypertensive agents [see Drug Interactions (7)].

Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes, including the class to which this drug principally belongs. There are no controlled trials demonstrating risk reduction with BYSTOLIC.

Control of high blood pressure should be part of comprehensive cardiovascular risk management, including, as appropriate, lipid control, diabetes management, antithrombotic therapy, smoking cessation, exercise, and limited sodium intake. Many patients will require more than one drug to achieve blood pressure goals. For specific advice on goals and management, see published guidelines, such as those of the National High Blood Pressure Education Program’s Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC).

Numerous antihypertensive drugs, from a variety of pharmacologic classes and with different mechanisms of action, have been shown in randomized controlled trials to reduce cardiovascular morbidity and mortality, and it can be concluded that it is blood pressure reduction, and not some other pharmacologic property of the drugs, that is largely responsible for those benefits. The largest and most consistent cardiovascular outcome benefit has been a reduction in the risk of stroke, but reductions in myocardial infarction and cardiovascular mortality also have been seen regularly. Elevated systolic or diastolic pressure causes increased cardiovascular risk, and the absolute risk increase per mmHg is greater at higher blood pressures, so that even modest reductions of severe hypertension can provide substantial benefit. Relative risk reduction from blood pressure reduction is similar across populations with varying absolute risk, so the absolute benefit is greater in patients who are at higher risk independent of their hypertension (for example, patients with diabetes or hyperlipidemia), and such patients would be expected to benefit from more aggressive treatment to a lower blood pressure goal.

Some antihypertensive drugs have smaller blood pressure effects (as monotherapy) in black patients, and many antihypertensive drugs have additional approved indications and effects (e.g., on angina, heart failure, or diabetic kidney disease). These considerations may guide selection of therapy.
2. DOSAGE AND ADMINISTRATION

2.1 Hypertension

The dose of BYSTOLIC must be individualized to the needs of the patient. For most patients, the recommended starting dose is 5 mg once daily, with or without food, as monotherapy or in combination with other agents. For patients requiring further reduction in blood pressure, the dose can be increased at 2-week intervals up to 40 mg. A more frequent dosing regimen is unlikely to be beneficial.

Renal Impairment

In patients with severe renal impairment (Ccr less than 30 mL/min) the recommended initial dose is 2.5 mg once daily; titrate up slowly if needed. BYSTOLIC has not been studied in patients receiving dialysis [see Clinical Pharmacology (12.4)].

Hepatic Impairment

In patients with moderate hepatic impairment, the recommended initial dose is 2.5 mg once daily; titrate up slowly if needed. BYSTOLIC has not been studied in patients with severe hepatic impairment and therefore it is not recommended in that population [see Clinical Pharmacology (12.4)].

2.2 Subpopulations

Geriatric Patients

It is not necessary to adjust the dose in the elderly [see use in Specific Populations (8.5)].

CYP2D6 Polymorphism

No dose adjustments are necessary for patients who are CYP2D6 poor metabolizers. The clinical effect and safety profile observed in poor metabolizers were similar to those of extensive metabolizers [see Clinical Pharmacology (12.3)].

3. DOSAGE FORMS AND STRENGTHS

BYSTOLIC is available as tablets for oral administration containing nebivolol hydrochloride equivalent to 2.5, 5, 10, and 20 mg of nebivolol.

BYSTOLIC tablets are triangular-shaped, biconvex, unscored, differentiated by color and are engraved with “FL” on one side and the number of mg (2.5, 5, 10, or 20) on the other side.

4. CONTRAINDICATIONS

BYSTOLIC is contraindicated in the following conditions:

• Severe bradycardia
• Heart block greater than first degree
• Patients with cardiogenic shock
• Decompensated cardiac failure
• Sick sinus syndrome (unless a permanent pacemaker is in place)
• Patients with severe hepatic impairment (Child-Pugh >B)
• Patients who are hypersensitive to any component of this product.

5. WARNINGS AND PRECAUTIONS

5.1 Abrupt Cessation of Therapy

Do not abruptly discontinue BYSTOLIC therapy in patients with coronary artery disease. Severe exacerbation of angina, myocardial infarction and ventricular arrhythmias have been reported in patients with coronary artery disease following the abrupt discontinuation of therapy with β-blockers. Myocardial infarction and ventricular arrhythmias may occur with or without preceding exacerbation of the angina pectoris. Caution patients without overt coronary artery disease against interruption or abrupt discontinuation of therapy. As with other β-blockers, when discontinuation of BYSTOLIC is planned, carefully observe and advise patients to minimize physical activity. Taper BYSTOLIC over 1 to 2 weeks when possible. If the angina worsens or acute coronary insufficiency develops, re-start BYSTOLIC promptly, at least temporarily.

5.2 Angina and Acute Myocardial Infarction

BYSTOLIC was not studied in patients with angina pectoris or who had a recent MI.

5.3 Bronchospastic Diseases

In general, patients with bronchospastic diseases should not receive β-blockers.

5.4 Anesthesia and Major Surgery

Because beta-blocker withdrawal has been associated with an increased risk of MI and chest pain, patients already on beta-blockers should generally continue treatment throughout the perioperative period. If BYSTOLIC is to be continued perioperatively, monitor patients closely when anesthetic agents which depress myocardial function, such as ether, cyclopropane, and trichloroethylene, are used. If β-blocker therapy is withdrawn prior to major surgery, the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures.

The β-blocking effects of BYSTOLIC can be reversed by β-agonists, e.g., dobutamine or isoproterenol. However, such patients may be subject to protracted severe hypotension. Additionally, difficulty in restarting and maintaining the heartbeat has been reported with β-blockers.

5.5 Diabetes and Hypoglycemia

β-blockers may mask some of the manifestations of hypoglycemia, particularly tachycardia. Nonselective β-blockers may potentiate insulin-induced hypoglycemia and delay recovery of serum glucose levels. It is not known whether nebivolol has these effects. Advise patients subject to spontaneous hypoglycemia and diabetic patients receiving insulin or oral hypoglycemic agents about these possibilities.

5.6 Thyrotoxicosis

β-blockers may mask clinical signs of hyperthyroidism, such as tachycardia. Abrupt withdrawal of β-blockers may be followed by an exacerbation of the symptoms of hyperthyroidism or may precipitate a thyroid storm.
According to the information provided, the document appears to be a medical or pharmacological report. It contains sections on drug interactions, adverse reactions, and specific populations. The text is dense with technical medical terminology, typical of a clinical review or guideline. The document seems to be discussing the use of a specific medication and its effects on various patient populations, including those with specific medical conditions or demographic characteristics. The text includes references to clinical studies, pharmacokinetic data, and safety profile observations. It is important to note that the content is highly specialized and requires a degree of medical understanding to fully comprehend.
Hypoglycemia: Administer IV glucose. Repeated doses of IV glucose or possibly glucagon may be required. Supportive measures should continue until clinical stability is achieved. The half-life of low doses of nebivolol is 12-19 hours.

Call the National Poison Control Center (800-222-1222) for the most current information on β-blocker overdose treatment.

11. DESCRIPTION

The chemical name for the active ingredient in BYSTOLIC (nebivolol) tablets is (1RS,1′RS)-[(2S,2′S)-(6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl)]-2′-iminodithiole hydrochloride. Nebivolol is a racemate composed of d-nebivolol and l-nebivolol with the stereocentric designations of [SRRR]-nebivolol and [RSSS]-nebivolol, respectively. Nebivolol's molecular formula is \( \text{C}_{28}\text{H}_{35}\text{FN}_{2}\text{O}_{5}\text{HCl} \) with the following structural formula:

![Structure of Nebivolol](image)

Nebivolol hydrochloride is a white to almost white powder that is soluble in methanol, dimethylsulfoxide, and N,N-dimethylformamide, sparingly soluble in ethanol, propylene glycol, and polyethylene glycol, and very slightly soluble in hexane, dichloromethane, and methylbenzene.

BYSTOLIC as tablets for oral administration contains nebivolol hydrochloride equivalent to 2.5, 5, 10, and 20 mg of nebivolol base. In addition, BYSTOLIC contains the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, D&C Red #27 Lake, FD&C Blue #2 Lake, FD&C Yellow #6 Lake, hypromellose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, pregelatinized starch, polysorbate 80, and sodium lauryl sulfate.

12. CLINICAL PHARMACOLOGY

Nebivolol is a β-adrenergic receptor blocking agent. In extensive metabolizers (most of the population) and at doses less than or equal to 10 mg, nebivolol is preferentially β1-selective. In poor metabolizers and at higher doses, nebivolol inhibits both β1- and β2-adrenergic receptors. Nebivolol lacks intrinsic sympathomimetic and membrane stabilizing activity at therapeutically relevant concentrations. At clinically relevant doses, BYSTOLIC does not demonstrate α-adrenergic receptor blockade activity. Various metabolites, including glucuronides, contribute to β-block activity.

12.1 Mechanism of Action

The mechanism of action of the antihypertensive response of BYSTOLIC has not been definitively established. Possible factors that may be involved include: (1) decreased heart rate, (2) decreased myocardial contractility, (3) diminution of tonic sympathetic outflow to the periphery from cerebral vasomotor centers, (4) suppression of renin activity and (5) vasodilation and decreased peripheral vascular resistance.

12.2 Pharmacokinetics

Nebivolol is metabolized by a number of routes, including glucuronidation and hydroxylation by CYP2D6. The active isomer (d-nebivolol) has an effective half-life of about 12 hours in CYP2D6 extensive metabolizers (most people), and 19 hours in poor metabolizers and exposure to d-nebivolol is substantially increased in poor metabolizers. This has less importance than usual, however, because the metabolites, including the hydroxyl metabolite and glucuronides (the predominant circulating metabolites), contribute to β-blocking activity.

Plasma levels of d-nebivolol increase in proportion to dose in EMs and PMs for doses up to 20mg. Exposure to l-nebivolol is higher than to d-nebivolol but l-nebivolol contributes little to the drug’s activity as d-nebivolol’s beta receptor affinity is > 1000-fold higher than l-nebivolol. For the same dose, PMs attain a 5-fold higher Cmax and 10-fold higher AUC of d-nebivolol than do EMs. D-nebivolol accumulates about 1.5-fold with repeated once-daily dosing in EMs.

Absorption

Absorption of BYSTOLIC is similar to an oral solution. The absolute bioavailability has not been determined. Mean peak plasma nebivolol concentrations occur approximately 1.5 to 4 hours post-dosing in EMs and PMs.

Food does not alter the pharmacokinetics of nebivolol. Under fed conditions, nebivolol glucuronides are slightly reduced. BYSTOLIC may be administered without regard to meals.

Distribution

The in vitro human plasma protein binding of nebivolol is approximately 98%, mostly to albumin, and is independent of nebivolol concentrations.

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a two-year study of nebivolol in mice, a statistically significant increase in the incidence of testicular Leydig cell hyperplasia and adenomas was observed at 40 mg/kg/day (5 times the maximally recommended human dose of 40 mg on a mg/m² basis). Similar findings were not reported in mice administered doses equal to approximately 0.3 or 1.2 times the maximum recommended human dose. No evidence of a tumorigenic effect was observed in a 24-month study in Wistar rats receiving doses of nebivolol 2.5, 10 and
p<0.05 based on pair-wise comparison vs. placebo

marrow micronucleus tests). In vivo

A randomized, double-blind, placebo- and active-controlled, parallel-group study in healthy
mice and not thought to be clinically relevant in man.

Effects on spermatogenesis were seen in male rats and mice at ≥ 40 mg/kg/day (10 and
5 times the MRHD, respectively). For rats the effects on spermatogenesis were not reversed
and may have worsened during a four week recovery period. The effects of nebivolol on
sperm in mice, however, were partially reversible.

Mutagenesis: Nebivolol was not genotoxic when tested in a battery of assays ( Ames, in vitro
mouse lymphoma TK+/-, in vitro human peripheral lymphocyte chromosome aberration,
in vivo Drosophila melanogaster sex-linked recessive lethal, and in vivo mouse bone
marrow micronucleus tests).

14. CLINICAL STUDIES

14.1 Hypertension

The antihypertensive effectiveness of BYSTOLIC as monotherapy has been demonstrated in
two randomized, double-blind, multi-center, placebo-controlled trials at doses ranging from
1.25 to 40 mg for 12 weeks (Studies 1, 2, and 3). A fourth placebo-controlled trial
that lower your blood pressure lower your chance of having a stroke or
a heart attack.

•  Are breastfeeding. It is not known if BYSTOLIC passes into your

•  Do not give BYSTOLIC to other people, even if they have the same

HOW SHOULD I STORE BYSTOLIC?

Store at 20° to 25°C (68° to 77°F) [ see USP for Controlled Room Temperature].

Dispense in a tight, light-resistant container as defined in the USP using a child-resistant
closure.

17. PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information).

•  Patient Advice

Advises patients to take BYSTOLIC regularly and continuously, as directed. BYSTOLIC can be
taken with or without food. If a dose is missed, take the next scheduled dose only (without
doubling it). Do not interrupt or discontinue BYSTOLIC without consulting the physician.

Patients should know how they react to this medicine before they operate automobiles, use
machinery, or engage in other tasks requiring alertness.

Advises patients to consult a physician if any difficulty in breathing occurs, or if they develop
signs or symptoms of worsening congestive heart failure such as weight gain or increasing
shortness of breath, or excessive bradycardia.

Caution patients subject to spontaneous hypoglycemia, or diabetic patients receiving
insulin or oral hypoglycemic agents, that β-blockers may mask some of the manifestations
of hypoglycemia, particularly tachycardia.

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Madison, NJ 07940

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Acidose®-Aqua is a registered trademark of Paddock Laboratories, LLC
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* p<0.05 based on pair-wise comparison vs. placebo

† Study enrolled only African Americans.

‡ Study enrolled patients with a mean age of 54 years, 55% males, 54% Caucasians, 29% Blacks, 15% Hispanics, 1% Asians, 14% diabetics, and 5% PMs. BYSTOLIC, 5 mg
to 20 mg, administered once daily concomitantly with stable doses of up to two other
antihypertensive agents (ACE inhibitors, angiotensin II receptor antagonists, and thiazide
diuretics) resulted in significant additional antihypertensive effects over placebo compared
to baseline blood pressure.

Effectiveness was similar in subgroups analyzed by age and sex. Effectiveness was
established in Blacks, but as monotherapy the magnitude of effect was somewhat less
than in Caucasians.

The blood pressure lowering effect of BYSTOLIC was seen within two weeks of treatment
and was maintained over the 24-hour dosing interval.

There are no trials of BYSTOLIC demonstrating reductions in cardiovascular risk in patients
with hypertension, but at least one pharmacologically similar drug has demonstrated
such benefits.

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**PATIENT INFORMATION**

**BYSTOLIC® (bi-STOL-ik)**
( nebivolol) Tablets

Read the Patient Information that comes with BYSTOLIC before you start taking it and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment. If you have any questions about BYSTOLIC, ask your doctor or pharmacist.

**WHAT IS BYSTOLIC?**

BYSTOLIC is a kind of prescription medicine called a “beta-blocker”. BYSTOLIC treats:
- High blood pressure (hypertension)
BYSTOLIC can lower blood pressure when used by itself and with other medicines.
BYSTOLIC is not approved for children less than 18 years of age.

**WHO SHOULD NOT TAKE BYSTOLIC?**

Do not take BYSTOLIC if you:
- Have heart failure and are in the ICU or need medicines to keep up your blood circulation
- Have a slow heartbeat or your heart skips beats (irregular heartbeat)
- Have severe liver damage
- Are allergic to any ingredient in BYSTOLIC. The active ingredient is nebivolol. See the end of this leaflet for a list of ingredients.

**WHAT SHOULD I TELL MY DOCTOR BEFORE TAKING BYSTOLIC?**

Tell your doctor about all of your medical problems, including if you:
- Have asthma or other lung problems (such as bronchitis or emphysema)
- Have problems with blood flow in your feet and legs (peripheral vascular disease) BYSTOLIC can make symptoms of blood flow problems worse.
- Have diabetes and take medicine to control blood sugar
- Have thyroid problems
- Have liver or kidney problems
- Had allergic reactions to medications or have allergies
- Have a condition called pheochromocytoma
- Are pregnant or trying to become pregnant. It is not known if BYSTOLIC is safe for your unborn baby. Talk with your doctor about the best way to treat high blood pressure while you are pregnant.
- Are breastfeeding. It is not known if BYSTOLIC passes into your breast milk. You should not breastfeed while using BYSTOLIC.
- Are scheduled for surgery and will be given anesthetic agents

Tell your doctor about all the medicines you take. Include prescription and non-prescription medicines, vitamins, and herbal products. BYSTOLIC and certain other medicines can affect each other and cause serious side effects.

Keep a list of all the medicines you take. Show this list to your doctor and pharmacist before you start a new medicine.

**HOW SHOULD I TAKE BYSTOLIC?**

- **Do not suddenly stop taking BYSTOLIC. You could have chest pain or a heart attack.** If your doctor decides to stop BYSTOLIC, your doctor may slowly lower your dose over time before stopping it completely.
- **Take BYSTOLIC every day exactly as your doctor tells you.** Your doctor will tell you how much BYSTOLIC to take and how often. Your doctor may start with a low dose and raise it over time.
- **Do not stop taking BYSTOLIC or change your dose without talking with your doctor.**
- **Take BYSTOLIC with or without food.**

- If you miss a dose, take your dose as soon as you remember, unless it is close to the time to take your next dose. Do not take 2 doses at the same time. Take your next dose at the usual time.
- If you take too much BYSTOLIC, call your doctor or poison control center right away.

**WHAT ARE POSSIBLE SIDE EFFECTS OF BYSTOLIC?**

- Low blood pressure and feeling dizzy. If you feel dizzy, sit or lie down and tell your doctor right away.
- Tiredness
- Slow heartbeat
- Headache
- Leg swelling due to fluid retention (edema). Tell your doctor if you gain weight or have trouble breathing while taking BYSTOLIC.
- Tell your doctor if you have any side effects that bother you or don’t go away.

**HOW SHOULD I STORE BYSTOLIC?**

- Store BYSTOLIC between 68° to 77°F (20° - 25°C).
- Safely throw away BYSTOLIC that is out of date or no longer needed.
- Keep BYSTOLIC and all medicines out of the reach of children.

**GENERAL INFORMATION ABOUT BYSTOLIC**

Doctors sometimes prescribe medicines for conditions not included in the patient information leaflets.
- Only use BYSTOLIC for the medical problem it was prescribed for.
- Do not give BYSTOLIC to other people, even if they have the same symptoms. It may harm them.

This leaflet summarizes the most important information about BYSTOLIC. For more information:
- Talk with your doctor.
- Ask your doctor or pharmacist for information about BYSTOLIC that is written for healthcare professionals.
- Visit www.BYSTOLIC.com on the web or call 1-800-678-1605.

**WHAT IS IN BYSTOLIC?**

**Active Ingredient:** Nebivolol

**Inactive Ingredients:** colloidal silicon dioxide, croscarmellose sodium, D&C Red #27 Lake, FD&C Blue #2 Lake, FD&C Yellow #6 Lake, hypromellose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, pregelatinized starch, polysorbate 80, and sodium lauryl sulfate

**WHAT IS HIGH BLOOD PRESSURE (HYPERTENSION)?**

Blood pressure is the force in your blood vessels when your heart beats and when your heart rests. You have high blood pressure when the force is too great.

High blood pressure makes the heart work harder to pump blood through the body and causes damage to the blood vessels. BYSTOLIC tablets can help your blood vessels relax so your blood pressure is lower. Medicines that lower your blood pressure lower your chance of having a stroke or heart attack.

**WARNINGS AND PRECAUTIONS**

**WARNINGS**

- **Tiredness**
- **Slow heartbeat**
- **Headache**
- **Leg swelling due to fluid retention (edema).**
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