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.
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>
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<th>SYSTOLIC PRESSURE</th>
<th>SBP</th>
<th>This is the pressure in your blood vessels when the heart beats (the top number)</th>
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<td>DBP</td>
<td>This is the pressure in your blood vessels when the heart rests between beats (the bottom number)</td>
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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.

**NORMAL**

<120 / <80  
Blood pressure that is less than 120 and less than 80 is considered normal.

**ELEVATED**

120-129 / <80  
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.

**STAGE I HYPERTENSION**

130-139 / 80-89  
You are considered to have high blood pressure when your SBP and DBP numbers are within these ranges.

**STAGE II HYPERTENSION**

>140 / >90  
Numbers 140 and greater for SBP or 90 and greater for DBP are considered stage II hypertension.

**HYPERTENSIVE CRISIS**

(consult your doctor immediately)

>180 / >120  
Numbers greater than 180 for SBP and/or numbers greater than 120 for DBP are considered hypertensive crisis.

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

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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.

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

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- 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

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Please see 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, and may guide selection of therapy. (1.1)

Can be taken with and without food. Individualize to the needs of the patient and monitor dose after each dosage increase. (2)

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

Dosage 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)
• Patients with cardiogenic shock (4)
• Heart block greater than first degree (4)
• Severe bradycardia (4)
• Hypersensitive to any component of this product (4)

Dosage and Administration

Can be taken with and without food. Individualize to the needs of the patient and monitor dose after each dosage increase. (2)

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

Drug Interactions

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

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 (≥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.

Full Prescribing Information: Contents*

1. INDICATIONS AND USAGE
2. DOSAGE AND ADMINISTRATION
3. DOSAGE FORMS AND STRENGTHS
4. CONTRAINDICATIONS
5. WARNINGS AND PRECAUTIONS
6. ADVERSE REACTIONS
7. DRUG INTERACTIONS
8. USE IN SPECIFIC POPULATIONS
9. OVERDOSAGE
10. DESCRIPTION
11. CLINICAL PHARMACOLOGY
12. NONCLINICAL TOXICOLOGY
13. HOW SUPPLIED/STORAGE AND HANDLING
14. PATIENT COUNSELING INFORMATION

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

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 (Clcr 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 (2½, 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 sequelae.

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.

5.7 Peripheral Vascular Disease

β-blockers can precipitate or aggravate symptoms of arterial insufficiency in patients with peripheral vascular disease.

5.8 Non-dihydropyridine Calcium Channel Blockers

Because of significant negative inotropic and chronotropic effects in patients treated with β-blockers and calcium channel blockers of the verapamil and diltiazem type, monitor the ECG and blood pressure in patients treated concomitantly with these agents.

5.9 Use with CYP2D6 Inhibitors

Nebivolol exposure increases with inhibition of CYP2D6 [see Drug Interactions (7)]. The dose of BYSTOLIC may need to be reduced.

5.10 Impaired Renal Function

Renal clearance of nebivolol is decreased in patients with severe renal impairment. BYSTOLIC has not been studied in patients receiving dialysis [see Clinical Pharmacology (12.4) and Dosage and Administration (2.1)].

5.11 Impaired Hepatic Function

Metabolism of nebivolol is decreased in patients with moderate hepatic impairment. BYSTOLIC has not been studied in patients with severe hepatic impairment [see Clinical Pharmacology (12.4) and Dosage and Administration (2.1)].

5.12 Risk of Anaphylactic Reactions

While taking β-blockers, patients with a history of severe anaphylactic reactions to a variety of allergens may be more reactive to repeated allergic, diagnostic, or therapeutic challenge. Such patients may be unresponsive to the usual doses of epinephrine used to treat allergic reactions.

5.13 Pheochromocytoma

In patients with known or suspected pheochromocytoma, initiate an α-blocker prior to the use of any β-blocker.

6. ADVERSE REACTIONS

6.1 Clinical Studies Experience

BYSTOLIC has been evaluated for safety in patients with hypertension and in patients with heart failure. The observed adverse reaction profile was consistent with the pharmacology of the drug and the health status of the patients in the clinical trials. Adverse reactions reported for each of these patient populations are provided below. Excluded are adverse reactions considered too general to be informative and those not reasonably associated with the use of the drug because they were associated with the condition being treated or are very common in the treated population.

The data described below reflect worldwide clinical trial exposure to BYSTOLIC in 6945 patients, including 5038 patients treated for hypertension and the remaining 1907 subjects treated for other cardiovascular diseases. Doses ranged from 0.5 mg to 40 mg. Patients received BYSTOLIC for up to 24 months, with over 1900 patients treated for at least 6 months, and approximately 1300 patients for more than one year.

HYPTENSION: In placebo-controlled clinical trials comparing BYSTOLIC with placebo, discontinuation of therapy due to adverse reactions was reported in 2.8% of patients treated with nebivolol and 2.2% of patients given placebo. The most common adverse reactions that led to discontinuation of BYSTOLIC were headache (0.4%), nausea (0.2%) and bradycardia (0.2%).

Table 1 lists treatment-emergent adverse reactions that were reported in three 12-week, placebo-controlled monotherapy trials involving 1597 hypertensive patients treated with either 5 mg, 10 mg, or 20-40 mg of BYSTOLIC and 205 patients given placebo and for which the rate of occurrence was at least 1% of patients treated with nebivolol and greater than the rate for those treated with placebo in at least one dose group.

Table 1. Treatment-Emergent Adverse Reactions with an Incidence of 6 weeks ≥1% in BYSTOLIC-Treated Patients and at a Higher Frequency than Placebo-Treated Patients

<table>
<thead>
<tr>
<th>System Organ Class – Preferred Term</th>
<th>Placebo (n = 205) (%)</th>
<th>Nebivolol 5 mg (n = 459) (%)</th>
<th>Nebivolol 10 mg (n = 461) (%)</th>
<th>Nebivolol 20-40 mg (n = 677) (%)</th>
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<tbody>
<tr>
<td>Cardiac Disorders</td>
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<tr>
<td>Bradycardia</td>
<td>0</td>
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<tr>
<td>Gastrointestinal Disorders</td>
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<tr>
<td>Diarrhea</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Nausea</td>
<td>0</td>
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<td>3</td>
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<td>General Disorders</td>
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<tr>
<td>Fatigue</td>
<td>1</td>
<td>2</td>
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<td>5</td>
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<tr>
<td>Chest pain</td>
<td>0</td>
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<td>Peripheral edema</td>
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<tr>
<td>Nervous System Disorders</td>
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<tr>
<td>Headache</td>
<td>6</td>
<td>9</td>
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<td>7</td>
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<td>Dizziness</td>
<td>2</td>
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<td>Psychiatric Disorders</td>
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<td>Insomnia</td>
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<td>Respiratory Disorders</td>
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<tr>
<td>Dyspnea</td>
<td>0</td>
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<td>Skin and subcutaneous Tissue Disorders</td>
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<tr>
<td>Rash</td>
<td>0</td>
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hypoglycemia and respiratory depression and manage accordingly. 

In controlled monotherapy trials of hypertensive patients, BYSTOLIC was associated with an increase in BUN, uric acid, triglycerides and a decrease in HDL cholesterol and platelet count.

In studies in which pregnant rats were given nebivolol during organogenesis, reduced fetal body weights were observed at maternally toxic doses of 20 and 40 mg/kg/day (5 and 10 times the MRHD), and small reversible decreases in both maternal and fetal body weights and fetal body length occurred at doses of 10 mg/kg/day (2.5 times the MRHD). No adverse effects on embryofetal viability, sex, weight or morphology were observed in studies wherein nebivolol was given to pregnant rabbits at doses as high as 50 mg/kg/day (125 times the MRHD).

In studies in which pregnant rabbits were given nebivolol at doses as high as 20 mg/kg/day (50 times the MRHD), prolonged gestation, dystocia and reduced maternal care were produced with corresponding increases in late fetal deaths and stillbirths and decreased birth weight, live litter size and pup survival. These events occurred only when nebivolol was given during the perinatal period (late gestation, parturition and lactation). Insufficient numbers of pups survived at 5 mg/kg to evaluate the offspring for reproductive performance.

The following adverse reactions have been identified from spontaneous reports of BYSTOLIC received worldwide and have not been listed elsewhere. These adverse reactions have been chosen for inclusion due to a combination of seriousness, frequency of reporting or potential causal connection to BYSTOLIC. Adverse reactions common in the population have generally been omitted. Because these adverse reactions were reported voluntarily from a population of uncertain size, it is not possible to estimate their frequency or establish a causal relationship to BYSTOLIC exposure: abnormal hepatic function (including increased ALT, AST and bilirubin), acute pulmonary edema, acute renal failure, atioventricular block (both second and third degree), bronchospasm, erectile dysfunction, hypersensitivity (including urticaria, allergic vasculitis and rare reports of angioedema), hypotension, myocardial infarction, pruritus, psoriasis, Raynaud’s phenomenon, peripheral ischemia/claudication, somnolence, syncope, thrombocytopenia, various rashes and skin disorders, vertigo, and vomiting.

Drug Interactions

1. CYP2D6 Inhibitors

Use caution when BYSTOLIC is co-administered with CYP2D6 inhibitors (quetindine, propafenone, fluoxetine, paroxetine, etc.) [see Clinical Pharmacology (12.5)].

2. Hypotensive Agents

Do not use BYSTOLIC with other β-blockers. Closely monitor patients receiving catecholamine-depleting drugs, such as reserpine or guanethidine, because the added β-blocking action of BYSTOLIC may produce excessive reduction of sympathetic activity. In patients who are receiving BYSTOLIC and clonidine, discontinue BYSTOLIC for several days before the gradual tapering of clonidine.

3. Digitalis Glycosides

Both digitalis glycosides and β-blockers slow atioventricular conduction and decrease heart rate. Concomitant use can increase the risk of bradycardia.

4. Calcium Channel Blockers

BYSTOLIC can exacerbate the effects of myocardial depressants or inhibitors of AV conduction, such as certain calcium antagonists (particularly of the phenylalkylamine [verapamil] and benzothiazepine [diltiazem] classes), or antiarrhythmic agents, such as disopyramide.

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data regarding use of BYSTOLIC in pregnant women are insufficient to determine whether there are drug-associated risks of adverse developmental outcomes. There are risks to the mother and fetus associated with poorly controlled hypertension in pregnancy. The use of beta blockers during the third trimester of pregnancy may increase the risk of hypotension, bradycardia, hypoglycemia, and respiratory depression in the neonate [see Clinical Considerations]. Oral administration of nebivolol to pregnant rats during organogenesis resulted in embryofetal and perinatal lethality at doses approximately equivalent to the maximum recommended human dose (MRHD). The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Hypertension in pregnancy increases the maternal risk for pre-eclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section, and post-partum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death. Pregnant women with hypertension should be carefully monitored and managed accordingly.

Fetal/Neonatal adverse reactions

Neonates of women with hypertension, who are treated with beta-blockers during the third trimester of pregnancy, may be at increased risk for hypotension, bradycardia, hypoglycemia, and respiratory depression. Observe newborns for symptoms of hypotension, bradycardia, hypoglycemia and respiratory depression and manage accordingly.

Data

Animal Data

Nebivolol was shown to increase embryo-fetal and perinatal lethality in rats at approximately 1.2 times the MRHD or 40 mg/kg/d on a mg/m² basis. Decreased pup body weights occurred at 1.25 and 2.5 mg/kg in rats, when exposed during the perinatal period (late gestation, parturition and lactation). At 5 mg/kg and higher doses (1.2 times the MRHD), prolonged gestation, dystocia and reduced maternal care were produced with corresponding increases in late fetal deaths and stillbirths and decreased birth weight, live litter size and pup survival. These events occurred only when nebivolol was given during the perinatal period (late gestation, parturition and lactation). Insufficient numbers of pups survived at 5 mg/kg to evaluate the offspring for reproductive performance.

In studies in which pregnant rats were given nebivolol during organogenesis, reduced fetal body weights were observed at maternally toxic doses of 20 and 40 mg/kg/day (5 and 10 times the MRHD), and small reversible decreases in both maternal and fetal body weights and fetal body length occurred at doses of 10 mg/kg/day (2.5 times the MRHD).

Risk Summary

There is no information regarding the presence of nebivolol in human milk, the effects on the breastfed infant, or the effects on milk production. Nebivolol is present in rat milk [see Data]. Because of the potential for β-blockers to produce serious adverse reactions in nursing infants, especially bradycardia, BYSTOLIC is not recommended during nursing.

Data

In lactating rats, maximum milk levels of unchanged nebivolol were observed at 4 hours after single and repeat doses of 2.5 mg/kg/day. The daily dose (mg/kg body weight) ingested by a rat pup is 0.3% of the dam dose for unchanged nebivolol.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established. Pediatric studies in ages newborn to 18 years old have not been conducted because of incomplete characterization of developmental toxicity and possible adverse effects on long-term fertility [see Nonclinical Toxicology (13.1)].

Juvenile Animal Toxicity Data

Daily oral doses of nebivolol to juvenile rats from post-natal day 14 to post-natal day 27 showed sudden unexplained death at exposures equal to those in human poor metabolizers given a single dose of 10 mg. No mortality was seen at half the adult human exposure.

In surviving rats, cardiomyopathy was seen at exposures greater than or equal to the human exposure. Male rat pups exposed to twice the human exposure showed decreases in total sperm count as well as decreases in the total and motile percentage of motile sperm.

8.5 Geriatric Use

Of the 2800 patients in the U.S. sponsored placebo-controlled clinical hypertension studies, 478 patients were 65 years of age or older. No overall differences in efficacy or in the incidence of adverse events were observed between older and younger patients.

8.6 Heart Failure

In a placebo-controlled trial of 2128 patients (1067 BYSTOLIC, 1061 placebo) over 70 years of age with chronic heart failure receiving a maximum dose of 10 mg/day for a median of 20 months, no worsening of heart failure was reported with nebivolol compared to placebo. However, if heart failure worsens consider discontinuation of BYSTOLIC.

10. OVERDOSAGE

In clinical trials and worldwide postmarketing experience there were reports of BYSTOLIC overdose. The most common signs and symptoms associated with BYSTOLIC overdose are bradycardia and hypotension. Other important adverse reactions reported with BYSTOLIC overdose include cardiac failure, dizziness, hypoglycemia, fatigue and vomiting. Other adverse reactions associated with β-blocker overdose include bronchospasm and heart block.

The highest known ingestion of BYSTOLIC worldwide involved a patient who ingested up to 500 mg of BYSTOLIC along with several 100 mg tablets of acetylsalicylic acid in a suicide attempt. The patient experienced hypotension, pallor, depressed level of consciousness, hypokinesia, hypotension, sinus bradycardia, hypoglycemia, hypokalemia, respiratory failure and vomiting. The patient recovered.

Because of extensive drug binding to plasma proteins, hemodialysis is not expected to enhance nebivolol clearance.

If overdose occurs, provide general supportive and specific symptomatic treatment. Based on expected pharmacologic actions and recommendations for other β-blockers, consider the following general measures, including stopping BYSTOLIC, when clinically warranted: Bradycardia: Administer IV atropine. If the response is inadequate, isoproterenol or another agent with positive chronotropic properties may be given cautiously. Under some circumstances, transthoracic or transvenous pacemaker placement may be necessary. Hypotension: Administer IV fluids and vasopressors. Intravenous glucagon may be useful. Heart Block (second or third degree): Monitor and treat with isoproterenol infusion. Under some circumstances, transthoracic or transvenous pacemaker placement may be necessary.

Congestive Heart Failure: Initiate therapy with digitalis glycoside and diuretics. In certain cases, consider the use of inotropic and vasodilating agents. Bronchospasm: Administer bronchodilator therapy such as a short acting inhaled β₂-agonist and/or aminophylline.
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)-1,1’-(2RS,2’SR)-bis(6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl) - 2,2’-imidodithanol hydrochloride. Nebivolol is a racemate composed of d-Nebivolol and l-Nebivolol with the stereochemical designations of [SRRR]-nebivolol and [RSSS]-nebivolol, respectively.
Nebivolol's molecular formula is (C_{22}H_{25}F_{2}NO_{4}•HCl) with the following structural formula:

\[
\text{SRRR - or d-nebivolol hydrochloride} \quad \text{HCl} \\
\text{RSSS - or l-nebivolol hydrochloride} \quad \text{HCl}
\]

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 silica 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 \( \beta_1 \) selective. In poor metabolizers and at higher doses, nebivolol inhibits both \( \beta_1 \) - and \( \beta_2 \) -adrenergic receptors. Nebivolol lacks intrinsic sympathomimetic and membrane stabilizing activity at therapeutically relevant concentrations. At clinically relevant doses, BYSTOLIC does not demonstrate \( \alpha_1 \)-adrenergic receptor blockade activity. Various metabolites, including glucuronides, contribute to β-blocking 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 output 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 12.3 hours.

Nebivolol is predominantly metabolized via direct glucuronidation of parent and to a lesser extent via N-dealkylation and oxidation via cytochrome P450 2D6. Its stereospecific metabolites contribute to the pharmacologic activity [see Drug Interactions (7)].

12.3 Pharmacokinetics
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12.5 Drug-Drug Interactions
Drugs that inhibit CYP2D6 can be expected to increase plasma levels of nebivolol. When BYSTOLIC is co-administered with an inhibitor or an inducer of this enzyme, monitor patients closely and adjust the nebivolol dose according to blood pressure response. In vitro studies have demonstrated that at therapeutically relevant concentrations, d- and l-nebivolol do not inhibit any cytochrome P450 pathways.

Digoxin: Concomitant administration of BYSTOLIC (10 mg once daily) and digoxin (0.25 mg once daily) for 10 days in 14 healthy adult individuals resulted in no significant changes in the pharmacokinetics of digoxin or nebivolol [see Drug Interactions (7)].

Warfarin: Administration of BYSTOLIC (10 mg once daily for 10 days) led to no significant changes in the pharmacokinetics of nebivolol or R- or S-warfarin following a single 10 mg dose of warfarin. Similarly, nebivolol has no significant effects on the anticoagulant activity of warfarin, as assessed by Prothrombin time and INR profiles from 0 to 144 hours after a single 10 mg warfarin dose in 12 healthy adult volunteers.

Diuretics: No pharmacokinetic interactions were observed in healthy adults between nebivolol (10 mg daily for 10 days) and furosemide (40 mg single dose), hydrochlorothiazide (25 mg once daily for 10 days), or spironolactone (25 mg once daily for 10 days).

Ramipril: Concomitant administration of BYSTOLIC (10 mg once daily) and ramipril (5 mg once daily) for 10 days in 15 healthy adult volunteers produced no pharmacokinetic interactions.

Losartan: Concomitant administration of BYSTOLIC (10 mg single dose) and losartan (50 mg single dose) in 20 healthy adult volunteers did not result in pharmacokinetic interactions.

Fluoxetine: Fluoxetine, a CYP2D6 inhibitor, administered at 20 mg per day for 21 days prior to a single 10 mg dose of nebivolol to 10 healthy adults, led to an 8-fold increase in the AUC and 3-fold increase in C_{max} for d-nebivolol [see Drug Interactions (7)].

Histamine-2 Receptor Antagonists: The pharmacokinetics of nebivolol (5 mg single dose) were not affected by the co-administration of ranitidine (150 mg twice daily). Cimetidine (400 mg twice daily) causes a 23% increase in the plasma levels of d-nebivolol.

Charcoal: The pharmacokinetics of nebivolol (10 mg single dose) were not affected by repeated co-administration (4, 8, 12, 16, 22, 28, 36, and 48 hours after nebivolol administration) of activated charcoal (Acidosorb™-Aqua).

Sildenafil: The co-administration of nebivolol and sildenafil decreased AUC and C_{max} of sildenafil by 21 and 23% respectively. The effect on the C_{max} and AUC for d-nebivolol was also small (< 20%). The effect on vital signs (e.g., pulse and blood pressure) was not affected by the co-administration of ranitidine (150 mg twice daily). Cimetidine (400 mg twice daily) causes a 23% increase in the plasma levels of d-nebivolol.

Other Concomitant Medications: Utilizing population pharmacokinetic analyses, derived from hypertensive patients, the following drugs were observed not to have an effect on the pharmacokinetics of nebivolol: acetaminophen, acetylsalicylic acid, atorvastatin, esomeprazole, ibuprofen, levethoxynorme sodium, metformin, sildenafil, simvastatin, or tocopherol.

Protein Binding: No meaningful changes in the extent of in vitro binding of nebivolol to human plasma proteins were noted in the presence of high concentrations of diazepam, digoxin, diphenhydrantoin, enalapril, hydrochlorothiazide, imipramine, indomethacin, propranolol, sulfadiazine, and warfarin. Additionally, nebivolol did not significantly alter the protein binding of the following drugs: diazepam, digoxin, diphenhydantoin, hydrochlorothiazide, imipramine, or warfarin at their therapeutic 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 adrenals 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...
40 mg/kg/day (equivalent to 0.6, 2.4, and 10 times the maximally recommended human dose). Co-administration of dihydrotestosterone reduced blood LH levels and prevented the Leydig cell hyperplasia, consistent with an indirect LH-mediated effect of nebivolol in mice and not thought to be clinically relevant in man.

A randomized, double-blind, placebo- and active-controlled, parallel-group study in healthy male volunteers was conducted to determine the effects of nebivolol on adrenal function, luteinizing hormone, and testosterone levels. This study demonstrated that 6 weeks of daily dosing with 10 mg of nebivolol had no significant effect on ACTH-stimulated mean serum cortisol AUC(0-120 min), serum LH, or serum total testosterone.

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 three 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 demonstrated additional antihypertensive effects of BYSTOLIC at doses ranging from 5 to 20 mg when administered concomitantly with up to two other antihypertensive agents (ACE inhibitors, angiotensin II receptor antagonists, and thiazide diuretics) in patients with inadequate blood pressure control.

The three monotherapy trials included a total of 2016 patients (1811 BYSTOLIC, 205 placebo) with mild to moderate hypertension who had baseline diastolic blood pressures (DBP) of 95 to 109 mmHg. Patients received either BYSTOLIC or placebo once daily for twelve weeks. Two of these three monotherapy trials (Studies 1 and 2) studied 1716 patients in the general hypertensive population with a mean age of 54 years, 55% males, 26% non-Caucasians, 7% diabetics and 6% genotyped as PMs. The third monotherapy trial (Study 3) studied 300 Black patients with a mean age of 51 years, 45% males, 14% diabetics, and 3% as PMs.

Placebo-subtracted blood pressure reductions by dose for each study are presented in Table 2. Most studies showed increasing response to doses above 5 mg.

Table 2. Placebo-Subtracted Least-Square Mean Reductions in Trough Sitting Systolic/Diastolic Blood Pressure (SiSBP/SiDBP mmHg) by Dose in Studies with Once Daily BYSTOLIC

<table>
<thead>
<tr>
<th>Nebivolol dose (mg)</th>
<th>1.25</th>
<th>2.5</th>
<th>5.0</th>
<th>10</th>
<th>20</th>
<th>30-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study 1</td>
<td>-6.6*/-5.1*</td>
<td>-8.5*/-5.6*</td>
<td>-6.1*/-5.5*</td>
<td>-9.2*/-6.3*</td>
<td>-8.7*/-6.9*</td>
<td>-11.7*/-8.3*</td>
</tr>
<tr>
<td>Study 2</td>
<td>-3.8*/-3.2*</td>
<td>-3.1*/-3.9*</td>
<td>-6.3*/-4.5*</td>
<td>-6.0*/-5.1*</td>
<td>-7.2*/-6.1*</td>
<td>-6.8*/-5.5*</td>
</tr>
<tr>
<td>Study 3*</td>
<td>-1.5*/-2.9</td>
<td>-2.6*/-4.9*</td>
<td>-6.0*/-6.1*</td>
<td>-7.2*/-6.1*</td>
<td>-6.8*/-5.5*</td>
<td></td>
</tr>
<tr>
<td>Study 4*</td>
<td>-5.7*/-3.3*</td>
<td>-3.7*/-3.5*</td>
<td>-6.2*/-4.6*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* p<0.05 based on pair-wise comparison vs. placebo

Study enrolled only African Americans.

Study on top of one or two other antihypertensive medications.

Study 4 enrolled 669 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 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.

16. HOW SUPPLIED/STORAGE AND HANDLING

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, 10, or 20) on the other side. BYSTOLIC tablets are supplied in the following strengths and package configurations:

<table>
<thead>
<tr>
<th>BYSTOLIC Table Strength</th>
<th>Package Configuration</th>
<th>NDC #</th>
<th>Tablet Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mg</td>
<td>Bottle of 30</td>
<td>0456-1402-30</td>
<td>Light Blue</td>
</tr>
<tr>
<td>5 mg</td>
<td>Bottle of 90</td>
<td>0456-1402-90</td>
<td>Beige</td>
</tr>
<tr>
<td>10 mg</td>
<td>Bottle of 30</td>
<td>0456-1410-30</td>
<td>Pinkish-Purple</td>
</tr>
<tr>
<td>20 mg</td>
<td>Bottle of 30</td>
<td>0456-1420-30</td>
<td>Light Blue</td>
</tr>
</tbody>
</table>

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

Advise 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.

Advise 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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BYS112870-P-11/17
BYSTOLIC® (bi-STOL-ik) Tablets

PATIENT INFORMATION

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.

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.

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°F 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.

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