



For the treatment of hypertension

Introducing a  
novel beta blocker  
for a broad range  
of patients.

**NEW**  
**Bystolic** <sup>TM</sup>  
(nebivolol)  
Next generation beta blocker



# New BYSTOLIC.

Significant blood pressure reductions  
with a favorable tolerability profile.

## Important Safety Information

Patients being treated with BYSTOLIC should be advised against abrupt discontinuation of therapy. Severe exacerbation of angina and the occurrence of myocardial infarction and ventricular arrhythmias have been reported following the abrupt cessation of therapy with beta blockers. When discontinuation is planned, the dosage should be reduced gradually over a 1- to 2-week period and the patient carefully monitored.

BYSTOLIC is contraindicated in severe bradycardia, heart block greater than first degree, cardiogenic shock, decompensated cardiac failure, sick sinus syndrome (unless a permanent pacemaker is in place), severe hepatic impairment (Child-Pugh >B), and in patients who are hypersensitive to any component of this product.

BYSTOLIC should be used with caution in patients with peripheral vascular disease, thyrotoxicosis, in patients treated concomitantly with beta blockers and calcium channel blockers of the verapamil and diltiazem type (ECG and blood pressure should be monitored), severe renal impairment, and any degree of hepatic impairment or in patients undergoing major surgery. Caution should also be used in diabetic patients as beta blockers may mask some of the manifestations of hypoglycemia, particularly tachycardia.

In general, patients with bronchospastic disease should not receive beta blockers.

BYSTOLIC should not be combined with other beta blockers.


The most common adverse events with BYSTOLIC versus placebo (approximately  $\geq 1\%$  and greater than placebo) were headache, fatigue, dizziness, diarrhea, nausea, insomnia, chest pain, bradycardia, dyspnea, rash, and peripheral edema.



- Unique mechanism of action includes cardioselective beta blockade and vasodilation<sup>1\*</sup>
- Significant BP reductions as monotherapy and in combination<sup>1,3</sup>
- Effective across a broad range of patients<sup>1-3</sup>
- Favorable tolerability profile with a low incidence of beta blocker related side effects<sup>1,2</sup>
- Once-daily antihypertensive with efficacy maintained over 24 hours<sup>1</sup>

\*In extensive metabolizers (most of the population) and at doses  $\leq 10$  mg, BYSTOLIC is preferentially  $\beta_1$  selective. 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.

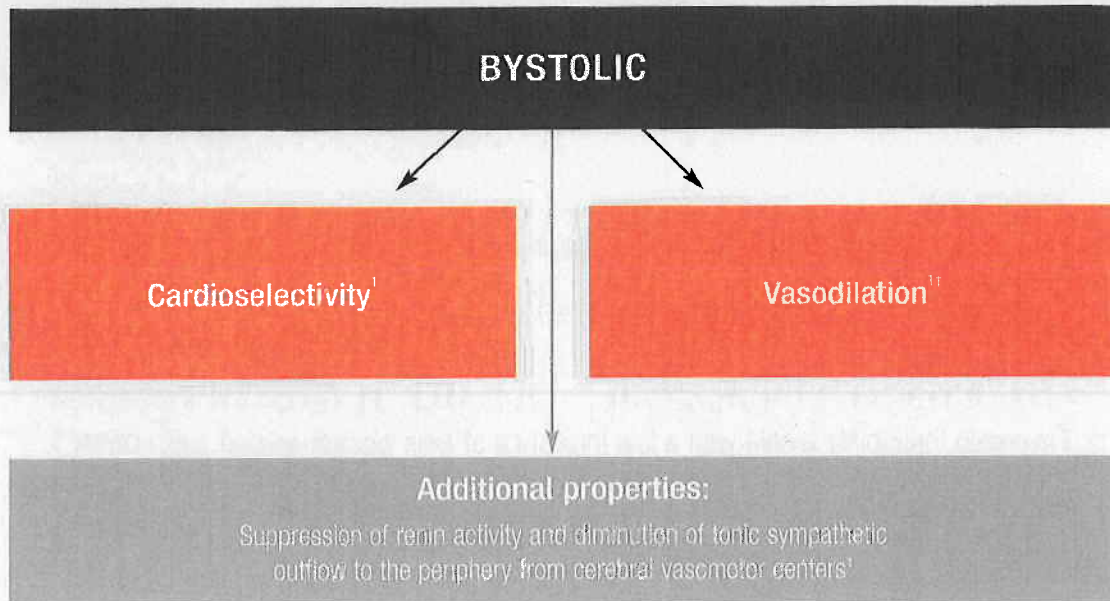
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## A unique mechanism of action



**Unique mechanism of action includes cardioselective beta blockade and vasodilation<sup>1\*</sup>**



<sup>1</sup>In extensive metabolizers (most of the population) and at doses <10 mg, BYSTOLIC is preferentially  $\beta_1$  selective. 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.

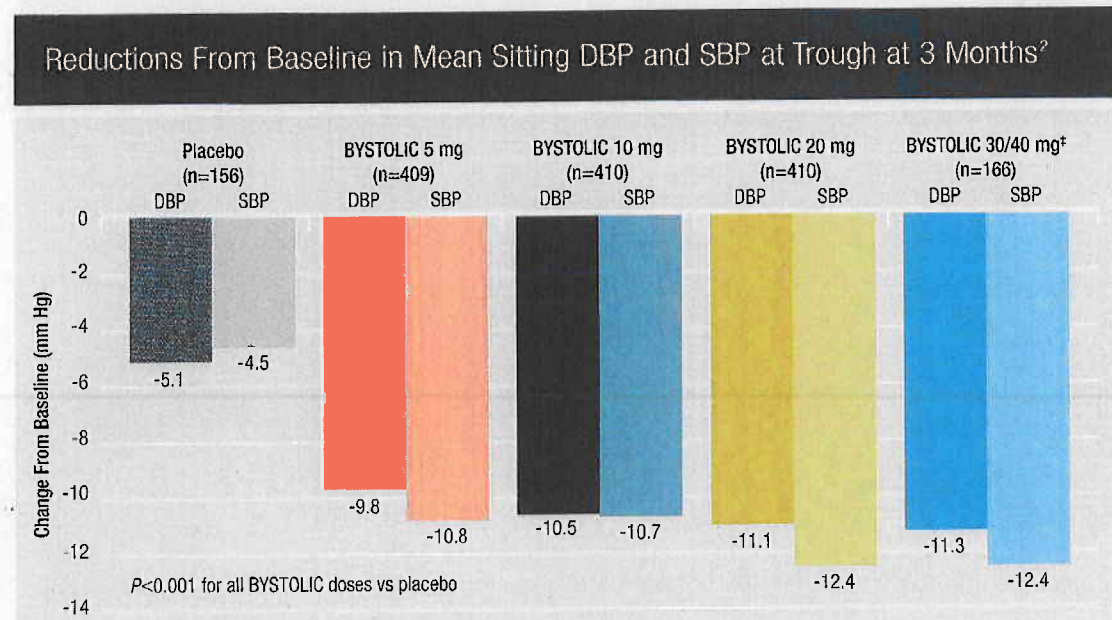
<sup>†</sup>Vasodilation occurs independently from  $\alpha_1$  blockade.

## Efficacy as monotherapy and in combination



In 3-month studies

### BYSTOLIC monotherapy achieves significant BP reductions<sup>1,2</sup>



Pooled results from two U.S. phase III, 3-month, placebo controlled studies of BYSTOLIC monotherapy for the treatment of mild to moderate hypertension. Primary endpoint was sitting DBP at trough. Mean values at baseline: sitting DBP at trough, 99.3 mm Hg; sitting SBP at trough, 152.4 mm Hg (N=1716).

\*Patients randomized to the 30/40 mg treatment arm initiated treatment with BYSTOLIC 30 mg and were then titrated to 40 mg if the 30 mg dose was tolerated (ie, heart rate >55 beats per minute).

### Efficacy demonstrated across a broad range of patients<sup>1,2</sup>

- Studies included the following hypertensive patient populations: 42% obese (BMI  $\geq 30$  kg/m<sup>2</sup>), 6% poor metabolizers, 20% aged 65 years or older, 45% female, 14% Black, and 7% diabetic<sup>2</sup>

### BYSTOLIC achieves significant heart rate reductions<sup>2</sup>

- Demonstrated consistent and effective beta blockade<sup>1,2</sup>

In a 3-month combination therapy study<sup>3</sup>

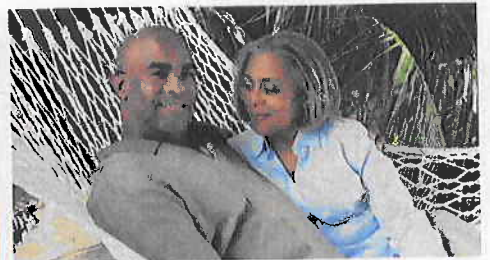
### Additional BP reductions for patients needing add-on therapy<sup>2</sup>

- Significant DBP and SBP reductions when BYSTOLIC was added to ACEIs, ARBs, and/or diuretics<sup>2</sup>

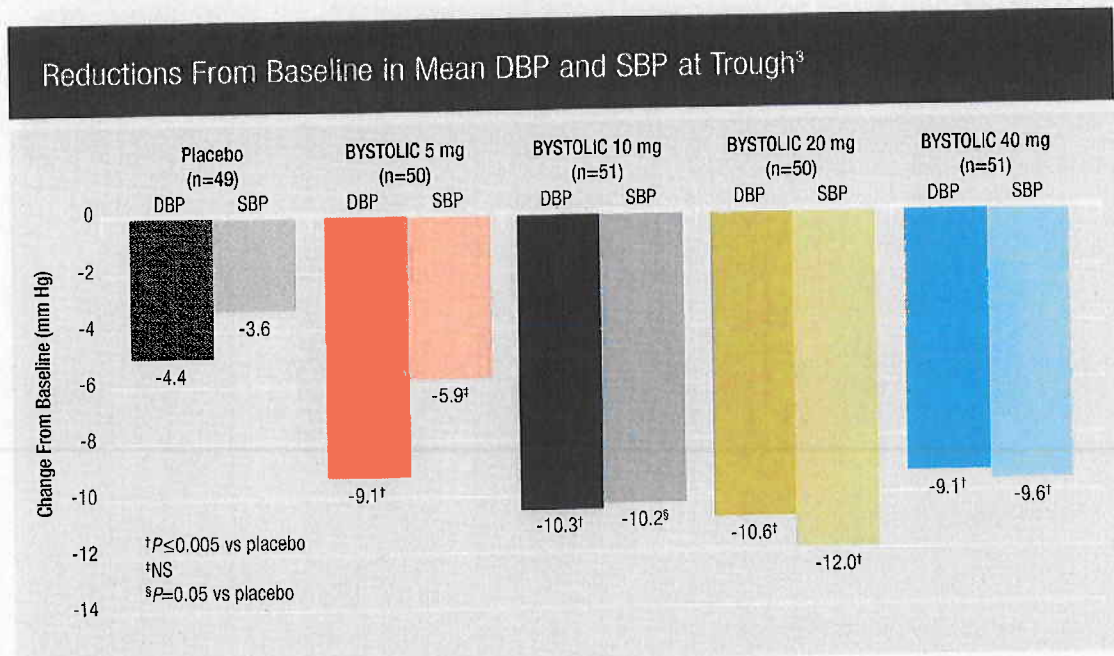
<sup>3</sup>Results from a 3-month randomized, double-blind, placebo-controlled study to assess the efficacy and safety of BYSTOLIC as add-on therapy to 1 or 2 other antihypertensives (ACEIs, ARBs, and/or diuretics).

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## Demonstrated efficacy in Black patients



### BYSTOLIC provides significant BP reductions in Black patients<sup>3\*</sup>



Results from a U.S. phase III, 3-month, multicenter, placebo-controlled, randomized, double-blind, parallel-group study of BYSTOLIC monotherapy for the treatment of mild to moderate hypertension in Black patients (N=300). Mean values at baseline: sitting DBP at trough, 100.4 mm Hg; sitting SBP at trough, 152.9 mm Hg.

### A high percentage of Black patients respond to BYSTOLIC therapy<sup>3||</sup>

- 58% to 64% of Black patients responded to therapy across the recommended dosing range<sup>3</sup>

\*Effectiveness was established in Black patients, but as monotherapy the magnitude of effect was somewhat less than in Caucasians.

|| Response defined as DBP < 90 mm Hg or DBP reduction > 10 mm Hg from baseline.

## Favorable tolerability profile and convenient once-daily dosing



### Overall low incidence of side effects<sup>1</sup>

Percentage of Adverse Events by Dose, Occurring in  $\geq 1\%$  of Patients Taking BYSTOLIC and More Frequently Than in Patients Taking Placebo<sup>1</sup>

Adverse Event	Placebo (n=205) %	BYSTOLIC 5 mg (n=459) %	BYSTOLIC 10 mg (n=461) %	BYSTOLIC 20-40 mg (n=677) %
Headache	6	9	6	7
Fatigue	1	2	2	5
Dizziness	2	2	3	4
Diarrhea	2	2	2	3
Nausea	0	1	3	2
Insomnia	0	1	1	1
Chest pain	0	0	1	1
Bradycardia	0	0	0	1
Dyspnea	0	0	1	1
Rash	0	0	1	1
Peripheral edema	0	1	1	1

Pooled results from three U.S. phase III, 3-month, placebo-controlled studies of BYSTOLIC monotherapy for the treatment of mild to moderate hypertension (N=2016).

### Overall low discontinuation rate<sup>2</sup>

- The discontinuation rate due to adverse events was 2.8% for BYSTOLIC vs 2.2% for placebo<sup>1</sup>

### Flexible, once-daily dosing<sup>1</sup>

- Dose should be individualized to the needs of the patient; the recommended starting dose for most patients is 5 mg once daily. Dose can be increased at 2-week intervals up to 40 mg<sup>1\*\*</sup>
- Can be taken with or without food, as monotherapy or in combination with other agents<sup>1</sup>

\*\*Patients with severe renal impairment or moderate hepatic impairment should begin with an initial dose of 2.5 mg once daily; upward titration, if needed, should be performed cautiously. BYSTOLIC has not been studied in patients undergoing dialysis. See the complete Prescribing Information.

References: 1. BYSTOLIC [package insert], St. Louis, MO: Forest Pharmaceuticals, Inc.; 2007. 2. Data on file, Forest Laboratories, Inc. 3. Saunders E, Smith WB, DeSalvo KB, Sullivan WA. The efficacy and tolerability of nebivolol in hypertensive African American patients. *J Clin Hypertens.* 2007;9:866-875.



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