

CENTENE PHARMACY AND THERAPEUTICS
THERAPEUTIC CLASS MATRIX
GPI Code 33: Beta Blockers
1Q18 January – February

Review Time Frame: November 2016-October 2017

Background:

Beta-blockers, or beta-adrenergic antagonists, compete with adrenergic neurotransmitters (norepinephrine and epinephrine) for binding at sympathetic receptor sites. There are three types of beta receptors:

- Beta-1, which are found primarily in heart muscle. Activation of these receptors results in increases in heart rate, contractility, and atrioventricular (AV) conduction, and a decrease in AV node refractoriness.
- Beta-2, which are present in heart muscle but are more prominent in bronchial and peripheral vascular smooth muscle. Activation of these receptors results in vasodilatation and bronchodilation.
- Beta-3, which are found in adipose tissue and the heart. Activation of these receptors may mediate catecholamine-induced thermogenesis and may reduce cardiac contractility.

New Drugs:

Date of Approval	Drug Name	FDA-Approved Indication(s)	Approval Type	Commercial Availability
10/25/17	Carvedilol extended-release (Coreg CR)	For the treatment of hypertension	<input type="checkbox"/> New entity <input type="checkbox"/> New formulation <input type="checkbox"/> New combination <input type="checkbox"/> New indication <input checked="" type="checkbox"/> First time generic <input type="checkbox"/> New brand (existing agent)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Discontinued Drugs:

None identified.

FDA Safety Warnings:

None identified.

REVIEW RECOMMENDATION

No changes are recommended to the clinical guidance for this drug class based on the review of available clinical practice guidelines.

References:

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6. Whelton PK, Carey RM, Aronow WS, Casey Jr DE, Collins KJ, Dennison Himmelfarb C, DePalma SM, Gidding S, Jamerson KA, Jones DW, MacLaughlin EJ, Muntner P, Ovbigele B, Smith Jr SC, Spencer CC, Stafford RS, Taler SJ, Thomas RJ, Williams Sr KA, Williamson JD, Wright Jr JT, 2017 ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ASH/ASPC/NMA/PCNA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults, *Journal of the American College of Cardiology* (2017), doi: 10.1016/j.jacc.2017.11.006.