

CENTENE PHARMACY AND THERAPEUTICS
THERAPEUTIC CLASS MATRIX
GPI Code 37: Diuretics
1Q18 January - February

Review Time Frame: November 2016 – October 2017

Background:

Diuretics increase urinary sodium and water loss by reducing sodium reabsorption at different sites in the nephron. The four major classes of diuretics are:

- Loop diuretics, which act in the thick ascending limb of the loop of Henle;
- Thiazide-type diuretics, which act in the distal tubule and connecting segment (and possibly the early cortical collecting tubule);
- Potassium-sparing diuretics, which act in the aldosterone-sensitive principal cells in the cortical collecting tubule; and
- Carbonic anhydrase inhibitors and osmotic diuretics, which act in part in the proximal tubule.

New Drugs:

Date of Approval	Drug Name	FDA-Approved Indication(s)	Approval Type	Commercial Availability
08/04/17	Spironolactone (CaroSpir)	<ul style="list-style-type: none"> • Treatment of NYHA class III-IV heart failure and reduced ejection fraction to increase survival, manage edema, and to reduce the need for hospitalization for heart failure • As an add-on therapy for the treatment of hypertension to lower blood pressure • Management of edema in adult cirrhotic patients when edema is not responsive to fluid and sodium restrictions 	<input type="checkbox"/> New entity <input checked="" type="checkbox"/> New formulation <i>(oral suspension)</i> <input type="checkbox"/> New combination <input type="checkbox"/> New indication <input type="checkbox"/> First time generic <input checked="" 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.

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References:

1. Brater DC. Mechanism of action of diuretics. Sterns RH, Emmett M (Eds.), UpToDate. Waltham, MA. Accessed November 7, 2017.
2. US Food and Drug Administration. Available at: www.fda.gov. Accessed November 7, 2017.
3. Yancy CW, Jessup M, Bozkurt B, et al. 2017 ACC/AHA/HFSA focused update of the 2013 ACCF/AHA guideline for the management of heart failure: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines and the Heart Failure Society of America. *Circulation*. 2017; 000:e000–e000. DOI: 10.1161/CIR.0000000000000509.
4. Flynn JT, Kaelber DC, Baker-Smith CM, et al. Clinical practice guideline for screening and management of high blood pressure in children and adolescents. *Pediatrics*. 2017; 140(3): pii: e20171904.
5. Qaseem A, Wilt TJ, Rich R, et al. Pharmacologic treatment of hypertension in adults aged 60 years or older to higher versus lower blood pressure targets: a clinical practice guideline from the American College of Physicians and the American Academy of Family Physicians. *Ann Intern Med*. 2017; 166(6): 430-437.