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July 2019 | High Blood Pressure and Stroke

FOCUS ON: High blood pressure and stroke

Hypertension in the elderly

The prevalence of hypertension (HTN) increases progressively with age.¹ In older Americans, HTN is the most important risk factor for many cardiovascular diseases (CVD) since 69% of patients with myocardial infarction (MI), 77% with stroke, and 74% with heart failure (HF) all have antecedent hypertension. In addition, hypertension is a major risk factor for incident diabetes mellitus, atrial fibrillation, and chronic kidney disease (CKD). Randomized trials have demonstrated how treatment of elevated systolic blood pressure (SBP) substantially reduces CVD risk in cohorts of elderly patients.¹

Hypertension and stroke

Stroke is the fifth leading cause of death in the United States and a leading cause of long-term disability, with nearly half of older stroke survivors experiencing moderate to severe disability.^{2,3} HTN in the elderly is a major risk factor for both ischemic stroke and cerebral hemorrhage. Stroke reduction appears related to blood pressure (BP) reduction, with greater benefits occurring with greater reductions.¹

Hypertension and heart failure

Aging and hypertension are both strongly associated with HF. HTN may lead to HF through different but frequently overlapping pathways.¹ Interestingly, although hospital mortality of elderly patients with first MI has declined in the last decade, HF developed in three-quarters of them within 5 years of follow-up. Thus, HF significantly increased later onset mortality of MI survivors.⁴

Hypertension and chronic kidney disease

Hypertension and aging both impact renal function. In patients 18 to 59 years of age without major comorbidities, and in patients 60 years or older who have diabetes, chronic kidney disease (CKD), or both conditions, the new goal blood pressure level is <140/90 mm Hg.⁵

Documentation and coding tips

- For stroke, document the type, vessel affected including laterality, and any immediate effects of stroke.
- After the initial acute care episode (hospitalization), if the patient has late effects (hemiplegia. dysphagia, etc.) then all residual deficits are coded to "sequelae" of stroke.
 - The sequelae may occur any time after the onset of the stroke. There is no time limit to code the sequelae.
- If a patient recovers from a stroke with no residual deficits, report history of stroke.
- · For hypertension, the classification presumes a causal relationship between hypertension and heart involvement and between hypertension and kidney involvement, as the two conditions are linked by the term "with" in the Alphabetic Index.
 - If the documentation clearly states the conditions are unrelated then code separately.

Stroke

- 163.-Cerebral infarction
- 169.3-Sequelae of cerebral infarction
- G45.9 Transient cerebral ischemic attack, unspecified
- Z86.73 Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits

Hypertension

110	Essential (primary) hypertension
111	Hypertensive heart disease
	Use additional code to identify type of heart failure (I50)
112	Hypertensive chronic kidney disease
	Use additional code to identify the stage of chronic kidney disease (N18.1-N18.9)
113	Hypertensive heart and chronic kidney

disease
Use additional code to identify type of heart failure (150. -)
Use additional code to identify the stage of chronic kidney disease (N18.1-N18.9)

- 791 15 Patient's noncompliance with renal dialysis
- Z99.2 Dependence on renal dialysis

Coding example

Previous CVA with residual hemiplegia

169.359 Hemiplegia and hemiparesis following cerebral infarction affecting unspecified side Note: Specify which side is affected.

Per the ICD-10-CM Official Guidelines for Coding and Reporting FY 2019: "A dash (-) at the end of an alphabetic index entry indicates that additional characters are required. Even if a dash is not included at the alphabetic index entry, it is necessary to refer to the tabular list to verity that no 7th character is required." The bolding of the ICD-10-CM codes represents categories, subcategories or codes that map to the CMS-HCC risk adjustment model for payment year 2020.

This guidance is to be used for easy reference; however, the current ICD-10-CM code classification and the Official Guidelines for Coding and Reporting are the authoritative references for accurate and complete coding. The information presented herein is for general informational purposes only. Neither Optum nor its affiliates warrant or represent that the information contained herein is complete, accurate or free from defects. Specific documentation is reflective of the "thought process" of the provider when treating patients. All conditions affecting the care, treatment or management of the patient should be documented with their status and treatment, and coded to the highest level of specificity. Enhanced precision and accuracy in the codes selected is the ultimate goal. Lastly, on April 1, 2019, the Centers for Medicare & Medicaid Services (CMS) announced that 2019 dates of service for the 2020 payment year model are based on 100% of the Centers for Medicare & Medicaid Services Announcement April 1, 2019. Website: https://www.cms.gov/Medicare/Health-Plans/ MedicareAdvtgSpecRateStats/Downloads/Announcement2020.pdf

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11000 Optum Circle, Eden Prairie, MN 55344 | optum.com

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