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Informative and educational updates for physicians

FOCUS ON: CKD (CHRONIC KIDNEY DISEASE)¹

- There are currently 26 million Americans with chronic kidney disease.²
- According to the Centers for Disease Control and Prevention, approximately 39.4% of individuals age 60 and older in the United States have CKD.³
- CKD is under-diagnosed; in the absence of a GFR calculation up to 74% may be missed.⁴
- In 2006, there were over 87,000 deaths among individuals undergoing treatment for end stage renal disease (ESRD) among U.S. residents. In the same year, over 500,000 U.S. residents received treatment for ESRD, with the total cost of the ESRD program exceeding \$33 billion.⁵
- Diabetes and hypertension (HTN) are the most common causes of ESRD with 49,224 and 29,662 new cases in 2006 respectively.⁵
- CKD has a disproportionate impact on minority populations, especially African-Americans who have a four times greater risk than white Americans.⁶

Staging Chronic Kidney Disease⁷

Note: All stages need to be chronic, not a one time event.

Stage	Severity	GFR Value (mL/min/1.73m ²)	ICD-9 Codes
Stage I		GFR ≥ 90 with kidney damage*	585.1
Stage II	Mild	GFR 60-89 with kidney damage*	585.2
Stage III	Moderate	GFR 30-59	585.3
Stage IV	Severe	GFR 15-29	585.4
Stage V	Kidney Failure	GFR < 15	585.5
	ESRD	Requiring chronic dialysis or transplantation	585.6
CKD Unsp.		Chronic Kidney Disease, unsp.	585.9

CKD is defined as either kidney damage or GFR < 60mL/min/1.73 m² for ≥ 3 months. *Kidney damage is defined as pathologic abnormalities or markers of damage, including abnormal results in blood or urine tests or imaging studies.⁸ Use additional code to identify kidney transplant status (V42.0) or renal dialysis status (V45.11), if applicable.⁹

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Always...

Screen at-risk individuals for CKD, such as:

- Individuals with hypertension or diabetes
- Those who have a family history of hypertension, diabetes or CKD
- Those considered as U.S. ethnic minority status

Test your high-risk patients annually with the following tests:

- Blood pressure measurement
- Urine test to detect protein (microalbuminuria)
- Chemistry (creatinine) to calculate GFR

Documentation and Coding Tips*⁹

Coding Example #1

Assessment: 1. HTN

2. CKD, stage 3

403.90 Hypertensive CKD, unspecified, with CKD stage I-IV, or unspecified

585.3 Chronic kidney disease, stage III

ICD-9 assumes a relationship when a patient has both chronic kidney disease and hypertension.

Coding Example #2

Assessment: The patient has type II diabetes with diabetic nephropathy and chronic kidney disease stage II secondary to diabetes.

250.40 Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled

583.81 Nephritis and nephropathy, NOS

585.2 Chronic kidney disease, stage II

Use additional code(s) with 250.40 to identify diabetic manifestation(s), such as:

585.x CKD or Chronic renal failure (CRF)

583.81 Nephritis and nephropathy, NOS

403.91 Nephropathy w/ HTN & CRF

581.81 Nephrotic syndrome

791.0 Proteinuria

Code also for associated long-term (current) insulin use (V58.67) (except Type I), if applicable.

*Each of the examples presented is only a portion of a comprehensive progress note, which must include evaluative language which supports the assessment, in addition to a plan of care.

1 <http://www.kidney.org/kidneydisease/ckd/index.cfm>

2 Chronic Kidney Disease (CKD) National Kidney Foundation. National Kidney Foundation. 10 Jul 2009. <<http://www.kidney.org/kidneydisease/ckd/index.cfm>>.

3 CDC /Department of Health and Human Services, "Prevalence of Chronic Kidney Disease and Associated Risk Factors." Morbidity and Mortality Weekly Report 56(08) (2007):161-165.

<<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5608a2.htm>>.

4 Ryan, T.P., et al., "Chronic Kidney Disease Prevalence and Rate of Diagnosis." American Journal of Medicine 120(2007): 981-986.

5 National Kidney and Urologic Diseases Information Clearinghouse. <<http://kidney.niddk.nih.gov/kudiseases/pubs/kustats/index.htm>>.

6 National Kidney and Urologic Diseases Information Clearinghouse. <www.kidney.niddk.nih.gov>.

7 Ingenix, *Coders' Desk Reference For Diagnoses*. 2010. Alexandria, VA: Ingenix, 2009.

8 National Kidney Foundation, "KDO QI Clinical Practice Guidelines for Chronic Kidney Disease: Evaluation, Classification and Stratification." American Journal of Kidney Disease 39: 2002 supplement 1.

9 World Health Organization, *Professional: ICD-9-CM for Physicians-Volumes 1&2*. 2010 Alexandria, VA: Ingenix, 2009.