

ICD-10-CM Clinical overview

#### Disclaimer

This document is intended for physicians and office staff. information here is not intended to serve as official coding or legal advice.

All coding should be considered on a case-by-case basis and should be supported by medical necessity and the appropriate documentation in the medical record.

#### Definition

Chronic kidney disease (chronic renal failure) is longstanding, progressive deterioration of renal function.

## Background

The kidneys maintain health by removing wastes and fluid from the body. The kidneys also perform these other important functions:

- Regulate body water and other chemicals in the blood, such as sodium, potassium, phosphorus and calcium
- Remove drugs and toxins
- Release hormones into the blood to regulate blood pressure, make red blood cells and promote strong bones

#### Causes

The main causes of chronic kidney disease (CKD) are hypertension and diabetes mellitus. Some of the other causes include:

- Glomerulonephritis a group of diseases that cause inflammation and damage to the glomeruli (the filtering units of the kidney)
- Inherited diseases, such as polycystic kidney disease or sickle cell disease
- Congenital malformations (present at birth)
- Diseases of the immune system, such as lupus
- Obstructions caused by problems such as kidney stones, tumors or enlarged prostate gland in men
- Repeated urinary tract infections
- Lead poisoning
- Long-term use of medicines that damage the kidneys for example, nonsteroidal anti-inflammatory drugs (NSAIDs), such as ibuprofen and naproxen

Note: Sometimes the cause is not known

## Signs and symptoms

There may be no symptoms in the early stages of CKD. As kidney function decreases signs and symptoms may include:

- Abnormal laboratory values (e.g., increased serum
   The creatinine, blood urea nitrogen [BUN] or certain electrolytes)
- High blood pressure that is difficult to control
- Changes in urine output (e.g., urinating less or more frequently than normal)
- Swelling due to fluid buildup in the tissues (edema)
- Fatigue and weakness
- Loss of appetite
- Weight loss
- Nausea and/or vomiting
- Excessive sleepiness or inability to sleep
- Headaches
- Decreased mental sharpness, trouble concentrating
- Dry, itchy skin

## Diagnostictools

- Laboratory testing to check kidney function (urinalysis, blood testing for creatinine, urea, electrolytes, etc.)
- Glomerular filtration rate (GFR) best test to measure level of kidney function and determine stage of kidney disease
- Imaging tests to evaluate for cause or type of CKD, including ultrasound, computed tomography (CT) scanning, magnetic resonance imaging (MRI)
- Renal biopsy (in some cases)

## Treatment

Chronic kidney failure (disease) has no cure, but treatment can help control signs and symptoms, reduce complications and slow the progress of the disease.

The first priority is controlling the condition responsible for the kidney failure and its complications (e.g., controlling diabetes or high blood pressure). Other treatments include:

- Proper diet (protein management along with salt, potassium and phosphorus restrictions may help slow disease progression)
- Daily exercise
- Avoidance of dehydration
- Avoidance of smoking and other tobacco products, alcohol and illegal drugs
- Avoidance of substances that are toxic to the kidneys, such as nonsteroidal anti-inflammatory drugs
- Treating complications





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In end-stage kidney disease (kidney function is reduced to 10%-15% or less of capacity), conservative measures as outlined above are no longer enough. Dialysis or kidney transplant become the only options to support life.





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Documentation tips for providers

#### Subjective

In the subjective section of the office note, document the presence or absence of current symptoms related to chronic kidney disease (e.g., fatigue, weakness, changes in urine output, etc.).

## Objective

In the objective section of the office note, document:

- Current associated physical exam findings (e.g., elevated blood pressure, edema, weight loss, etc.)
- Related diagnostic test results
- Presence of a surgically placed arteriovenous shunt for the purpose of dialysis, along with related exam findings (e.g., presence of a thrill or bruit)

#### Assessment

#### Abbreviations:

- A good rule of thumb for any medical record is to limit
   or avoid altogether the use of abbreviations.
- While CKD is a commonly accepted medical abbreviation for chronic kidney disease, best practice is as follows: The initial notation of an abbreviation should be spelled out in full with the abbreviation in parentheses: "chronic kidney disease (CKD)." Subsequent mention of CKD can be made using the abbreviation.

## Specificity:

- Describe the final chronic kidney disease diagnosis to the highest level of specificity.
- Document the specific stage of chronic kidney disease. Remember that medical coders are not allowed to calculate the stage of CKD based on documentation of the GFR; rather, the specific stage must be stated in the medical record.
- Include the current status of CKD (stable, worsening, improved, etc.).
- State the cause of CKD, if known. Use linking terms or descriptors that clearly show cause and effect (see "Chronic kidney disease and associated conditions" in the coding section on pages 4 and 5).

#### Terms of uncertainty:

 For a confirmed diagnosis of chronic kidney disease, do not use descriptors that imply uncertainty (such as "probable," "apparently," "likely" or "consistent with").

 Do not document suspected chronic kidney disease as if the diagnosis is confirmed. Document the signs and symptoms in the absence of a confirmed diagnosis.

#### Current versus historical:

- Do not use the descriptor "history of" to describe current chronic kidney disease. In diagnosis coding, the phrase "history of" means the condition is historical and no longer exists as a current problem.
- Do not document past/resolved chronic kidney disease as if it is current when the condition is truly historical and no longer exists as a current problem. (Example: history of CKD that was resolved with a kidney transplant)

### **Treatment plan**

- Document a specific, concise treatment plan for CKD.
- Include specific details of current dialysis status (hemodialysis, peritoneal dialysis, frequency, etc.).
- Indicate in the office note to whom or where any referral or consultation requests are made.
- Include the date or time frame for the next appointment.

#### Associated conditions

When no other cause is specified, ICD-10-CM presumes a cause-and-effect relationship between:

- Hypertension and chronic kidney disease
- Hypertension and heart disease
- Diabetes and chronic kidney disease

It remains the physician's responsibility, however, to document every diagnosis clearly, concisely and to the highest level of specificity. Further, if the physician does not want CKD to be coded as a complication of hypertension or dia betes, the medical record documentation must specifically and clearly indicate hypertension and/or dia betes are not the cause.

The physician should clearly document cause-and-effect relationships through the use of linking terms, such as "due to," "secondary to," "associated with,"

"related to," etc. Best practice is to use descriptors such as "hypertensive" or "diabetic." For example:

- "Diabetic chronic kidney disease, stage 4"
- "Diabetic and hypertensive chronic kidney disease, stage 3"





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Documentation tips for providers

## Electronic health record (EHR) issues

## Unspecified codes with descriptions:

Some electronic health records insert ICD-10-CM codes with corresponding descriptions into the assessment section of the office note in place of a provider-stated final diagnosis. For example:

"N18.9, Chronic kidney disease, unspecified"

This results in a diagnosis that is not described to the highest level of specificity as required by the Centers for Medicare & Medicaid Services (CMS). Vague and unspecified diagnosis descriptions should be used only when sufficient clinical information and further details are not known or available to the provider at the time of the encounter.

## Mismatch between final diagnostic statement and EHRinserted diagnosis code with description:

Another scenario that causes confusion is one in which the assessment section documents a provider-stated diagnosis *PLUS* an EHR-inserted diagnosis code with description that does not match or may even contradict the stated diagnosis. Example:

## Assessment: Chronic kidney disease, stage 3 N18.4 Chronic kidney disease, stage 4 (severe)

Here the final diagnosis **in bold** in the assessment does not match the EHR-inserted diagnosis code with description.

To avoid confusion and ensure accurate diagnosis code assignment, the provider-stated final diagnosis must either

- a) match the code with description; OR
- b) it must classify in ICD-10-CM to the EHR-inserted diagnosis code with description.

**Note:** ICD-10-CM is a statistical classification; it is not a substitute for a healthcare provider's final diagnostic statement. It is the healthcare provider's responsibility to provider legible, clear, concise and specific documentation of each final diagnosis described to the highest level of specificity, which is then translated to a code for reporting purposes. It is not appropriate for healthcare providers to simply list a code number or select a code number from a list of codes in place of a written final diagnosis.





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Tips and resources for coders

#### Coding basics

For accurate and specific diagnosis code assignment: Review the entire medical record to verify CKD is a current condition. Next, note the exact CKD diagnosis description documented in the medical record. Finally, in accordance with ICD-10-CM official coding guidelines:

- Search the alphabetic index for that specific description.
- Verify the code in the tabular list, carefully following all instructional notes.

## Coding CKD

CKD classifies to category N18. This category includes instructional notes advising to:

Code first any associated:

diabetic chronic kidney disease (E $\emptyset$ 8 – E13 with .22) hypertensive chronic kidney disease (I12.-, I13.-) Use additional code to identify kidney transplant status, if applicable (Z94. $\emptyset$ ).

ICD-10-CM classifies CKD based on the severity of the condition as follows:

N18.1 Chronic kidney disease, stage 1

N18.2 Chronic kidney disease, stage 2 (mild)

N18.3- Chronic kidney disease, stage 3 (moderate)

N18.3Ø Chronic kidney disease, stage 3 unspecified

N18.31 Chronic kidney disease, stage 3a

N18.32 Chronic kidney disease, stage 3b

N18.4 Chronic kidney disease, stage 4 (severe)

N18.5 Chronic kidney disease, stage 5

Excludes1 CKD stage 5 requiring chronic dialysis (N18.6)\*

N18.6 End stage renal disease

*Includes* CKD requiring chronic dialysis\*

Use additional code to identify dialysis status (Z99.2)

N18.9 Chronic kidney disease, unspecified

\*These instructional notes indicate CKD requiring chronic dialysis classifies to N18.6 even when the condition is not specifically documented as end-stage renal disease.

N18.9, Chronic kidney disease, unspecified includes:

Chronic renal disease

Chronic renal failure NOS (not otherwise specified)

Chronic renal insufficiency

Chronic uremia NOS (not otherwise specified) Diffuse sclerosing glomerulonephritis NOS (not

otherwise specified)

If both a stage of CKD and End stage renal disease (ESRD) are documented, only code N18.6 is assigned.

## Glomerular filtration rate (GFR)

GFR is a laboratory blood test used to measure the level of kidney function and determine the stage of kidney disease. It is calculated based on the patient's blood creatinine level, age, race, height, weight and gender.

- Note: It is not appropriate to code the stage of CKD based on GFR alone. Rather, the physician must specifically document the stage of CKD.
- If a physician documents the GFR but does not document the stage of CKD (or current chronic hemodialysis), unspecified code N18.9 is assigned.

## Renal (kidney) dialysis

Renal dialysis status classifies to code **Z99.2**, Dependence on renal dialysis. Code **Z99.2**:

### Includes:

Hemodialysis status

Peritoneal dialysis status

Presence of arteriovenous shunt for dialysis

Renal dialysis status NOS (not otherwise specified)

#### Excludes1:

Encounter for fitting and adjustment of dialysis catheter  $(Z49.\emptyset-)$ 

#### Excludes2:

Noncompliance with renal dialysis (Z91.15)

## Chronic kidney disease and associated conditions

ICD-10-CM Official Guidelines for Coding and Reporting (section I.A.15) advise the word "with" or "in" should be interpreted to mean "associated with" or "due to" when it appears in a code title, the alphabetic index or an instructional note in the tabular list. The classification presumes a causal relationship between the two conditions linked by these terms in the alphabetic index or tabular list. These conditions should be coded as related even in the absence of physician documentation explicitly linking them, unless the documentation clearly states the conditions are unrelated or when another guideline exists that specifically requires a documented linkage between the two conditions.

For conditions not specifically linked by these relational terms in the classification or when a guideline requires that a linkage between two conditions be explicitly documented, provider documentation must link the conditions to code them as related.





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Tips and resources for coders

#### CKD and associated conditions – continued

The word "with" in the alphabetic index is sequenced immediately following the main term or subterm, not in alphabetical order.

Based on section I.A.15 of the official guidelines concerning the word "with," when no other cause is specified in the medical record, the ICD-10-CM classification presumes a cause-and-effect relationship between:

- Hypertension and chronic kidney disease
- Hypertension and heart disease
- Diabetes and chronic kidney disease

## Hypertensive chronic kidney disease

- Assign codes from category I12, Hypertensive chronic kidney disease, when both hypertension and a condition classifiable to category N18, Chronic kidney disease, are present (unless the medical record indicates hypertension is not the cause of CKD).
- Use an additional code to identify the stage of chronic kidney disease (category N18).
- If a patient has hypertensive chronic kidney disease and acute renal failure, the acute renal failure should also be coded. Sequence according to the circumstances of the admission/encounter.

## Hypertensive heart and chronic kidney disease

When a medical record supports both hypertensive heart disease and hypertensive kidney disease, assign a code from category I13, Hypertensive heart and chronic kidney disease.

- If heart failure is present, use an additional code to identify the type of heart failure (category I5Ø).
- Assign an additional code from category N18 to identify the stage of chronic kidney disease.

The codes in category I13 are combination codes that include all three conditions: hypertension, heart disease and chronic kidney disease.

- Category I13 specifies that the conditions included at I11 (hypertensive heart disease) and I12 (hypertensive CKD) are included in I13.
- If a patient has hypertensive heart disease and hypertensive chronic kidney disease, use a code from combination category I13 rather than individual codes for hypertension, heart disease and chronic kidney disease or codes from categories I11 or I12.

 If both acute renal failure and chronic kidney disease are present, an additional code for acute renal failure is required. Sequence according to the circumstances of the admission/encounter.

## Diabetes and chronic kidney disease

As noted, diabetes and chronic kidney disease are linked by the term "with" in the alphabetic index. Therefore, these two conditions should be coded as related even in the absence of physician documentation explicitly linking them, unless the documentation clearly indicates the conditions are unrelated.

## Diabetes mellitus (DM), hypertension (HTN) and CKD

- Current diagnoses of CKD, HTN and DM and no documented cause-and-effect linkage between any combination of the three: Presume CKD is linked to both conditions and code both hypertensive CKD and diabetic CKD.
  - Current DM coexisting with hypertensive CKD and no documented cause-and-effect linkage between DM and CKD: Code only hypertensive CKD; do not code diabetic CKD. The descriptor "hypertensive" specifically identifies hypertension as the cause of CKD. CKD should not be coded as diabetic because the physician has specifically documented a different cause (HTN).
- Current HTN coexisting with diabetic CKD and no documented cause-and-effect linkage between HTN and CKD: Code only diabetic CKD; do not code hypertensive CKD. The descriptor "diabetic" specifically identifies diabetes as the cause of CKD. CKD should not be coded as hypertensive because the physician has specifically documented a different cause (DM).
- Cause of CKD described with terms of uncertainty: In accordance with ICD-10-CM Official Guidelines for Coding and Reporting, when the cause of CKD is documented with terms of uncertainty, do not codethe cause as if it is confirmed. Example: Chronic kidney disease stage 4 "likely" due to diabetes do not code diabetic CKD because the documentation indicates it is not certain that diabetes is the cause.

## CKD and kidney transplant status

Patients who have undergone kidney transplant may still have some form of CKD because the kidney transplant may not fully restore kidney function. Therefore, the presence of CKD alone does not constitute a transplant complication.





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Tips and resources for coders

- When there is no documentation of kidney transplant complication: Assign the appropriate code from category N18 for the patient's stage of CKD and code Z94.Ø, Kidney transplant status.
- If a transplant complication such as failure, rejection or other transplant complication – is specifically documented, assign a code from subcategory T86.1-, Complications of kidney transplant.
- A code from subcategory T86.1- should not be assigned for post-kidney transplant patients who have CKD unless a transplant complication, such as transplant failure or rejection, is specifically documented.
- If the documentation is unclear as to whether the patient has a complication of kidney transplant, query the physician for clarification.
- Conditions that affect the function of the transplanted kidney, other than CKD, should be assigned a code from subcategory T86.1and a secondary code that identifies the complication.

## Coding examples

Example 1	
Final diagnosis	Stage 3a chronic kidney disease with GFR of 52
ICD-10-CM code(s)	N18.31 Chronic kidney disease, stage 3a

Example 2	
Final diagnosis	Chronic kidney disease stage 5 on chronic routine hemodialysis M, W, F
ICD-10-CM code(s)	N18.6 End-stage renal disease Z99.2 Dependence on renal dialysis
Comment	Instructional notes under code $N18.6$ advise CKD requiring chronic dialysis classifies to $N18.6$ even when the condition is not specifically documented as end-stage renal disease; and, use an additional code to identify dialysis status (Z99.2).

Example 3	
Final diagnosis	Type 2 diabetes mellitus with <u>associated</u> stage 3 chronic kidney disease
ICD-10-CM code(s)	E11.22 Type 2 diabetes mellitus with diabetic CKD N18.3Ø Chronic kidney disease, stage 3 unspecified
Comment	Documentation clearly links Type 2 diabetes to stage 3 CKD.

Example 4	
Final diagnosis	Type 2 diabetes mellitus, Chronic kidney disease, stage 3
ICD-10-CM code(s)	E11.22 Type 2 diabetes mellitus with diabetic CKD N18.3Ø Chronic kidney disease, stage 3 unspecified
Comment	Documentation does not link Type 2 diabetes to stage 3 CKD. (The word "with" used in provider documentation does not have the same meaning as "with" in the ICD-10-CM coding manual.) However, ICD-10-CM presumes the linkage when no other cause is documented.

Example 5		
Final diagnosis	Hypertensive heart and chronic kidney disease stage 4 with congestive heart failure	
ICD-10-CM code(s)	I13.Ø Hypertensive heart and chronic kidney disease with heart failure and stage 1 through	
	stage 4 chronic kidney disease, or unspecified chronic kidney disease	
	ISØ.9 Heart failure, unspecified	
	N18.4 Chronic kidney disease, stage 4 (severe)	

**References:** American Hospital Association Coding Clinic; ICD-10-CM Official Guidelines for Coding and Reporting; Mayo Clinic; Merck Manual; National Kidney Foundation; WebMD

