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<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>451</td>
<td>Phlebitis and thrombophlebitis</td>
</tr>
<tr>
<td>Includes: endophlebitis, inflammation, vein, periphelebitis, supplicative phlebitis</td>
<td></td>
</tr>
<tr>
<td>Excludes: that complicating: abortion (634-638), ectopic or molar pregnancy (639), pregnancy, childbirth, or the puerperium (640), that due to or following: implant or catheter device (996.61-996.62), infusion, perfusion, or transfusion (999.2)</td>
<td></td>
</tr>
<tr>
<td>451.0</td>
<td>Of superficial vessels of lower extremities</td>
</tr>
<tr>
<td>Saphenous vein (greater)</td>
<td></td>
</tr>
<tr>
<td>Femoral vein (greater)</td>
<td></td>
</tr>
<tr>
<td>Other venous embolism and thrombosis</td>
<td></td>
</tr>
<tr>
<td>451.11</td>
<td>Femoral vein (deep) (superficial)</td>
</tr>
<tr>
<td>451.19</td>
<td>Other</td>
</tr>
<tr>
<td>451.82</td>
<td>Of superficial veins of upper extremity</td>
</tr>
<tr>
<td>Antecubital vein</td>
<td></td>
</tr>
<tr>
<td>Basilic vein</td>
<td></td>
</tr>
<tr>
<td>Cephalic vein</td>
<td></td>
</tr>
<tr>
<td>451.83</td>
<td>Of deep veins of upper extremities</td>
</tr>
<tr>
<td>Brachial vein</td>
<td></td>
</tr>
<tr>
<td>Radial vein</td>
<td></td>
</tr>
<tr>
<td>Ulnar vein</td>
<td></td>
</tr>
<tr>
<td>451.84</td>
<td>Of upper extremities, unspecified</td>
</tr>
<tr>
<td>451.89</td>
<td>Other</td>
</tr>
<tr>
<td>Axillary vein</td>
<td></td>
</tr>
<tr>
<td>Jugular vein</td>
<td></td>
</tr>
<tr>
<td>Subclavian vein</td>
<td></td>
</tr>
<tr>
<td>Thromboembolism of breast (Mondor’s disease)</td>
<td></td>
</tr>
<tr>
<td>452</td>
<td>Portal vein thrombosis</td>
</tr>
<tr>
<td>Portal vein obstruction</td>
<td></td>
</tr>
<tr>
<td>453</td>
<td>Other venous embolism and thrombosis</td>
</tr>
<tr>
<td>Includes: Budd-Chiari syndrome, Hepatic vein thrombosis</td>
<td></td>
</tr>
<tr>
<td>Excludes: that complicating: abortion (634-638), ectopic or molar pregnancy (639), pregnancy, childbirth, or the puerperium (640), that due to or following: implant or catheter device (996.61-996.62), infusion, perfusion, or transfusion (999.2)</td>
<td></td>
</tr>
<tr>
<td>453.0</td>
<td>Budd-Chiari syndrome</td>
</tr>
<tr>
<td>Hepatic vein thrombosis</td>
<td></td>
</tr>
<tr>
<td>453.1</td>
<td>Thrombophlebitis migrans</td>
</tr>
<tr>
<td>453.2</td>
<td>Of inferior vena cava</td>
</tr>
<tr>
<td>453.3</td>
<td>Of renal vein</td>
</tr>
</tbody>
</table>

**Tabular List revisions** use **underlines** (new text) and **strike-through** (deleted text) to enhance understanding of annual updates.

**Symbol key located at the bottom of each page** eliminates any confusion about the meaning of color bars and symbols.
Chronic kidney disease (CKD)

Includes: chronic uremia

Code first hypertensive chronic kidney disease, if applicable (403.00-403.91, 404.00-404.93)

Use additional code to identify kidney transplant status, manifestation as:

- uremic:
  - neuropathy (357.4)
  - pericarditis (420.0)

ICD-9-CM Official Guidelines (Chapter 10):

1. **Stages of chronic kidney disease (CKD)**
   
   The ICD-9-CM classifies CKD based on severity. The severity of CKD is designated by stages I-V: Stage II, code 585.2, equates to mild CKD; stage III, code 585.3, equates to moderate CKD; and stage IV, code 585.4, equates to severe CKD. Code 585.6, End stage renal disease (ESRD), is assigned when the provider has documented end-stage renal disease (ESRD). If both a stage of CKD and ESRD are documented, assign code 585.6 only.

2. **Chronic kidney disease 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. Assign the appropriate 585 code for the patient’s stage of CKD and code V42.0. If a transplant complication such as failure or rejection is documented, see section I.C.17.f.1.b for information on coding complications of a transplant. If the documentation is unclear as to whether the patient has a complication of the transplant, query the provider.

3. **Chronic kidney disease with other conditions**
   
   Patients with CKD may also suffer from other serious conditions, most commonly diabetes mellitus and hypertension. The sequencing of the CKD code in relationship to codes for other contributing conditions is based on the conventions in the tabular list.

   See I.C.3.a.4 for sequencing instructions for diabetes.
   See I.C.4.a.1 for anemia in CKD.
   See I.C.7.a.3 for hypertensive chronic kidney disease.
   See I.C.17.f.1.b, Kidney transplant complications, for instructions on coding of documented rejection or failure.

Layman's: The stages of CKD are differentiated by the glomerular filtration rate (GFR) of the patient, as follows:

- **Stage I**: GFR >90 ml/min/1.73 m²
- **Stage II**: GFR 60-89 ml/min/1.73 m²
- **Stage III**: GFR 30-59 ml/min/1.73 m²
- **Stage IV**: GFR 15-29 ml/min/1.73 m²
- **Stage V**: GFR <15 ml/min/1.73 m²

ESRD: GFR <15 ml/min/1.73 m² and patient is on dialysis or undergoing kidney transplantation

Lay descriptions give coders additional information to facilitate proper code selection

585 Chronic kidney disease (CKD)

585.1 Chronic kidney disease, Stage I

N18.1 Chronic kidney disease, stage I

585.2 Chronic kidney disease, Stage II (mild)

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

585.3 Chronic kidney disease, Stage III (moderate)

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

585.4 Chronic kidney disease, Stage IV (severe)

[N18.4 Chronic kidney disease, stage IV (severe)]

585.5 Chronic kidney disease, Stage V

[N18.5 Chronic kidney disease, stage V]

Excludes chronic kidney disease, stage V requiring chronic dialysis (585.6)

585.6 End stage renal disease

[N18.6 End stage renal disease]

Excludes chronic kidney disease.

585.9 Chronic kidney disease

Chronically renal failure

Chronic renal failure

Chronic renal insufficiency

586 Renal failure, unspecified

N19 Unspecified renal failure

Uremia NOS

Excludes following labor and delivery (669.3) posttraumatic renal failure (958.5) that complicating:

- abortion (634-638 with .3, 639.3)
- ectopic or molar pregnancy (639.3)
- uremia:
  - extrarenal (788.9)
  - prerenal (788.9)

587 Renal sclerosis, unspecified

Includes atrophy of kidney

Atrophy of kidney

Contracted kidney

Renal:

- cirrhosis
- fibrosis

588 Disorders resulting from impaired renal function

Excludes secondary hypertension (405.0-405.9)

588.0 Renal osteodystrophy

Azotemic osteodystrophy

Phosphate-losing tubular disorders

Renal:

- dwarfism
- infantilism

rickets

588.1 Nephrogenic diabetes insipidus

Excludes diabetes insipidus NOS (253.5)