Table S1. Codes Used to Identify CKD, Anemia, Treatment, and Comorbid Conditions

<table>
<thead>
<tr>
<th>Disease or Condition</th>
<th>Codes</th>
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</thead>
<tbody>
<tr>
<td><strong>CKD</strong></td>
<td>ICD-9-CM diagnosis codes: 016.0; 095.4; 189.0; 189.9; 223.0; 236.91; 250.4; 271.4; 274.1; 283.11; 403.X0; 403.X1; 404.X0; 404.X1; 404.X2; 404.X3; 440.1; 442.1; 447.3; 572.4; 580-588; 591; 642.1; 646.2; 753.12-753.17; 753.19; 753.2; 794.4.</td>
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<tr>
<td><strong>Anemia</strong></td>
<td>ICD-9-CM diagnosis codes: 280.0; 280.1; 280.8; 280.9; 281.0; 281.1; 281.2; 281.3; 281.4; 281.8; 281.9; 285.1; 285.21; 285.29; 285.8; 285.9.</td>
</tr>
<tr>
<td><strong>Comorbid conditions</strong></td>
<td>ICD-9-CM diagnosis codes or ICD-9-CM V codes</td>
</tr>
<tr>
<td>ASHD</td>
<td>410-414; V45.81; V45.82</td>
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<tr>
<td>CHF</td>
<td>398.91;422; 425; 428; 402.X1; 404.x1; 404.x3; V42.1</td>
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<tr>
<td>CVA/TIA</td>
<td>430-438</td>
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<tr>
<td>PVD</td>
<td>440-444; 447; 451-453; 557</td>
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<tr>
<td>Cardiac (other)</td>
<td>420-421;423-424; 429; 785.0-785.3; V42.2;V43.3</td>
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<tr>
<td>COPD</td>
<td>491-494; 496; 510</td>
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<tr>
<td>GI</td>
<td>456.0-456.2; 530.7; 531-534; 569.84; 569.85; 578</td>
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<tr>
<td>Liver disease</td>
<td>570; 571; 572.1; 572.4; 573.1-573.3; V42.7</td>
</tr>
<tr>
<td>Dysrhythmia</td>
<td>426-427; V45.0; V53.3</td>
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<tr>
<td>Cancer</td>
<td>140-172; 174-208; 230-231; 233-234</td>
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<tr>
<td>Diabetes</td>
<td>250; 357.2; 362.0x; 366.41</td>
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<tr>
<td>Hypertension</td>
<td>362.11; 401.x-405.x; 437.2</td>
</tr>
<tr>
<td><strong>Inflammatory conditions</strong></td>
<td>ICD-9-CM diagnosis codes or ICD-9-CM V codes</td>
</tr>
<tr>
<td>Chronic infections</td>
<td>730.1; 424.90; 042; 010-018; 117.5; 114; 117.3; 136.3</td>
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<tr>
<td>Crohn’s disease</td>
<td>555</td>
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<tr>
<td>Ulcerative colitis</td>
<td>556</td>
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<tr>
<td>Hepatitis C</td>
<td>070.41, 070.44, 070.51, 070.54, 070.70, 070.71</td>
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<td>Gout</td>
<td>274; V77.5</td>
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<tr>
<td>Rheumatoid arthritis</td>
<td>714</td>
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<tr>
<td>ESAs: HCPCS Codes</td>
<td>DPO: HCPCS: 'C1774', 'J0880', 'Q4054', 'Q0137', 'J0881', 'J0882'</td>
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<td></td>
<td>PEG: HCPCS: 'Q2047', 'J0890'</td>
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<tr>
<td>ESAs: NDC Codes</td>
<td>HPCPS codes: J1760 - J1780; J2915; J2916; J1750; J1751; J1752; J1755; J1756; J1760; J1770; J1780; J1442; J1443; W0091; W0121; W0231; W0233; X0011; X0107; Q0138; Q0139</td>
</tr>
</tbody>
</table>
RBC transfusion

Revenue codes: 0380; 0381; 0382; 0391; value code: 37; procedure codes: 99.03; 99.04; IP/SNF/OP/Medicare Part B HCPCS/CPT: P9010, P9011, P9016, P9021, P9022, P9038, P9039, P9040, P9051, P9054, P9056, P9057, P9058, 36430

ASHD, atherosclerotic heart disease; CHF, congestive/chronic heart failure; CKD, chronic kidney disease; COPD, chronic obstructive pulmonary disease; CPT, Current Procedural Terminology; CVA/TIA, cerebrovascular accident/transient ischemic attack; DPO, darbepoietin; EPO, erythropoietin; ESAs: erythropoietin-stimulating agents; GI, gastrointestinal; HCPCS, Healthcare Common Procedure Coding System; IP, inpatient; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; NDC, National Drug Code; OP, outpatient; PEG, peginesatide (note: withdrawn from US market in February 2013); PVD, peripheral vascular disease; RBC, red blood cell; SNF, skilled nursing facility.