

DISEASE TYPE	RENAL MANIFESTATIONS	RENAL SIGNS/SYMPTOMS	OTHER SIGNS/SYMPTOMS
<b>Anti-GBM Disease</b> Anti-Glomerular Basement Membrane & Goodpasture's Syndrome	<ul style="list-style-type: none"> <li>glomerulonephritis, often rapidly progressive</li> <li>necrotizing crescentic glomerulonephritis</li> </ul>	<ul style="list-style-type: none"> <li>hematuria</li> <li>edema</li> <li>proteinuria</li> <li>dysuria</li> </ul>	<ul style="list-style-type: none"> <li>lethargy</li> <li>persistent dry cough</li> <li>dyspnea</li> <li>pulmonary hemorrhage</li> </ul>
<b>MPA</b> Microscopic Polyangiitis  <b>GPA</b> Granulomatosis with Polyangiitis	<ul style="list-style-type: none"> <li>glomerulonephritis, often rapidly progressive</li> <li>necrotizing crescentic glomerulonephritis</li> </ul>	<ul style="list-style-type: none"> <li>microscopic hematuria</li> <li>proteinuria</li> <li>granular or RBC casts</li> </ul>	<ul style="list-style-type: none"> <li>rapid and sudden weight loss</li> <li>cough, dyspnea, stridor, hemoptysis</li> <li>deep vein thrombosis</li> <li>mononeuritis multiplex</li> <li>upper respiratory involvement (favors GPA)               <ul style="list-style-type: none"> <li>scleritis, conjunctivitis</li> <li>sinusitis &amp; otitis media</li> </ul> </li> <li>skin lesions/purpuric rash, often on the legs (favors MPA)</li> <li>often, but not always, MPO-ANCA* (favors MPA) or PR3-ANCA* (favors GPA)</li> </ul>
<b>EGPA</b> Eosinophilic Granulomatosis with Polyangiitis	<ul style="list-style-type: none"> <li>necrotizing crescentic glomerulonephritis</li> <li>eosinophilic interstitial nephritis</li> </ul>	<ul style="list-style-type: none"> <li>microscopic hematuria</li> <li>proteinuria</li> <li>granular or RBC casts</li> </ul>	<ul style="list-style-type: none"> <li>adult onset asthma</li> <li>rapid and sudden weight loss</li> <li>arthralgia &amp; myalgia</li> <li>mononeuritis multiplex</li> <li>eosinophilia</li> <li>eosinophilic myocarditis, chest pain</li> </ul>
<b>PAN</b> Polyarteritis Nodosa	<ul style="list-style-type: none"> <li>inflammation of renal arteries &amp; medium sized arteries of the kidney leading to kidney damage</li> </ul>	<ul style="list-style-type: none"> <li>rapidly developing hypertension</li> <li>proteinuria</li> <li>hematuria</li> </ul>	<ul style="list-style-type: none"> <li>anorexia &amp; abdominal pain</li> <li>arthralgia</li> <li>asymmetric mononeuritis multiplex</li> <li>testicular pain in men</li> </ul>
<b>IgA Vasculitis</b> (Henoch-Schönlein Purpura)	<ul style="list-style-type: none"> <li>nephrotic syndrome</li> <li>glomerulonephritis</li> </ul>	<ul style="list-style-type: none"> <li>proteinuria</li> <li>microscopic hematuria</li> </ul>	<ul style="list-style-type: none"> <li>arthritis</li> <li>polyarthralgia</li> <li>palpable purpuric rash</li> <li>periarticular tenderness</li> <li>abdominal pain</li> </ul>
<b>Hypocomplementemic Urticarial Vasculitis</b>	<ul style="list-style-type: none"> <li>glomerulonephritis</li> <li>nephrotic syndrome</li> </ul>	<ul style="list-style-type: none"> <li>hematuria</li> <li>proteinuria</li> </ul>	<ul style="list-style-type: none"> <li>fever and swollen lymph nodes</li> <li>indurated wheals lasting &gt; 24 hours</li> <li>abdominal pain</li> <li>COPD</li> <li>hypocomplementemia</li> <li>polyarthralgia</li> </ul>



For info on the Vasculitis Foundation, scan this code, or visit [www.VasculitisFoundation.org](http://www.VasculitisFoundation.org).

\*ANCA Associated Anti-neutrophilic cytoplasmic antibody  
 Reviewed by Elizabeth J. Brant, MD | October 2023