

Evidence Discussion (PVD 6.11 and PEDPVD 3.3)

EviCore
By EVERNORTH

Small Vessel Vasculitis

Advanced imaging is not routinely needed with diagnosis of Small vessel vasculitis. In suspected cases, clinical assessment of end-organ damage is usually indicated in both the adult and pediatric population

Initial diagnostic workup should include history, physical exam, and laboratory data including inflammatory markers.^{3,4} End-organ damage may involve multiple organ systems based on the type of vasculitis. For individuals with suspected disease, ultrasound, CT and MR imaging of the affected anatomic regions may be indicated.^{5,6,7} Annual surveillance in the absence of symptoms is still recommended due to the high risk of progressive vascular damage.^{8,9}

References:

1. Sivaraman V, Fels EC, and Ardoin SP. Vasculitis syndromes. Nelson Textbook of Pediatrics, Chapter 192. eds Kliegman RM, St. Geme JW III, Blum NJ, et al. 21st ed. Philadelphia, PA: Elsevier; 2020:1317-1327.
2. Ozen S, Pistorio A, Iusan SM, et al. EULAR/PRINTO/PRES criteria for Henoch-Schönlein purpura, childhood polyarteritis nodosa, childhood Wegener granulomatosis and childhood Takayasu arteritis: Ankara 2008. Part II: Final classification criteria. Annals of the Rheumatic Diseases. 2010;69(5):798-806. doi:10.1136/ard.2009.116657.
3. Cui J, Huang LY, Guo J, Wu CR, Zhang B. Diagnosis and treatment of adult mixed-type Henoch-Schönlein purpura. Cent Eur J Immunol. 2019;44(2):138-143. doi:10.5114/ceji.2019.87064.
4. Sharma AM, Singh S, Lewis JE. Diagnostic Approach in Patients With Suspected Vasculitis. Techniques in Vascular and Interventional Radiology. 2014;17(4):226-233. doi:10.1053/j.tvir.2014.11.002.
5. Granata C, Damasio MB, Zaottini F, et al. Imaging of Childhood Vasculitis. Radiologic Clinics of North America. 2017;55(5):1131-1143. doi:10.1016/j.rcl.2017.05.001.
6. Ammirati E, Moroni F, Pedrotti P, et al. Non-Invasive Imaging of Vascular Inflammation. Frontiers in Immunology. 2014;5:1-15. doi:10.3389/fimmu.2014.0039.
7. Soliman M, Laxer R, Manson D, et al. Imaging of systemic vasculitis in childhood. Pediatric Radiology. 2015;45(8):1110-1125. doi:10.1007/s00247-015-3339-3.
8. Muratore F, Pipitone N, Salvarani C, Schmidt WA. Imaging of vasculitis: State of the art. Best Practice Research Clinical Rheumatology. 2016;30(4):688-706. doi:10.1016/j.berh.2016.09.010

9. Broncano J, Vargas D, Bhalla S, Cummings KW, Raptis CA, Luna A. CT and MR Imaging of Cardiothoracic Vasculitis. *RadioGraphics*. 2018;38(4):997-1021. doi:10.1148/rg.2018170136.