DIAGNOSTIC CHECKLIST

Assessment	Findings Suggestive of Plasminogen Deficiency Type 1 (PLGD-1)	
Patient History / Clinical Evaluation	 Recurrent ear infections; hearing loss Gum growths/lesions History of eyelid growths (pseudomembranous lesions)1; history of frequent eye infections; Asthma; hoarseness of voice; recurrent coughing; trouble breathing; recurrent pneumonia GI symptoms: recurrent stomach ulcers, IBD Poor wound healing; juvenile colloid milia Symptoms of hydrocephalus (neonates only) or diagnosis of Dandy-Walker malformation Female dysmenorrhea or infertility of unknown cause 	 PLGD-1 is the most com LC is the most common Other symptom location gastrointestinal tract, un A history of, or current f evaluation for the diagn
Family medical history	Confirmed diagnosis of PLGD-1 in a first degree relative (parents, siblings)	Evaluate all siblings regard PLGD-1 is inherited in an a Carriers will have lower lev asymptomatic Siblings may be asymptor
Plasminogen activity functional assays 4 · Chromogenic assay · Clot lysis time	Activity level less than normal for the individual lab where test was run	Activity level <u><</u> 45% was us patients have been noted
Plasminogen antigen assays	Antigen level less than normal for the individual lab where test was run	 Antigen assays together <u>Activity</u> PLGD-1 Low PLGD-2 Low Patients with PLGD-1 winot develop lesions and
Molecular Genetic Test***	Mutations in PLG gene	Genetic testing is NOT re there is yet no known corr development or disease s
Lesion Biopsy***	 Eroded epithelium with fibrin-rich deposits¹ Granulation tissue¹ 	Surgical interventions, inc of a diagnostic evaluation cause rapid lesion recurre scarring or end organ dan

*** NOT Required for Diagnosis

Comments

nmon cause of ligneous conjunctivitis (LC)¹ n symptoms in PLGD-1, followed by ligneous gingivitis¹ ons include the ears, nose, respiratory tract, rinary tract, and female reproductive tract¹ findings of, the symptoms listed at left should suggest nosis of PLGD-1

dless of symptoms autosomal recessive fashion vels of plasminogen activity, but will likely be

matic but be affected

sed as the cut off for clinical trials, however affected to have levels higher than this cut off value

er with activity assays distinguish PLGD-1 from PLGD-2:

<u>Antigen</u>

Low Normal

ill be symptomatic, however patients with PLGD-2 do I will not need treatment

quired as part of the diagnostic evaluation for PLGD-1; relation between genetic mutation and symptom severity

cluding lesion biopsy, **should NOT be performed** as part a, as these interventions can worsen patient symptoms, ence after intervention, and contribute to permanent mage References: 1. Schuster V, Seregard S. Ligneous conjunctivitis. Surv Ophthalmol. 2003;48(4):369-88. 2. Martin-Fernandez L, Marco P, Corrales I, et al. The unravelling of the genetic architecture of plasminogen deficiency and its relation to thrombotic disease. Sci Rep. 2016;6:39255. doi: 10.1038/srep39255. 3. Plasminogen deficiency. Indiana Hemophilia & Thrombosis Center website. https://www.ihtc.org/plasminogen-deficiency. Accessed January 30, 2022. 4.Plasminogen (PLG). DiaPharma website. https://diapharma.com/plasminogen-plg. Accessed January 30, 2022. 5.Schuster V, Hügle B, Tefs K. Plasminogen deficiency. J Thromb Haemost. 2007; 5(12):2315-22. 6. Tefs K, Gueorguieva M, Klammt J, et al. Molecular and clinical spectrum of type plasminogen deficiency: A series of 50 patients. Blood. 2006;108(9):3021-6. 7. Shapiro AD, Menegatti M, Palla R, et al. An international registry of patients with plasminogen deficiency (HISTORY). Haematologica. 2020;105(3):554-561.