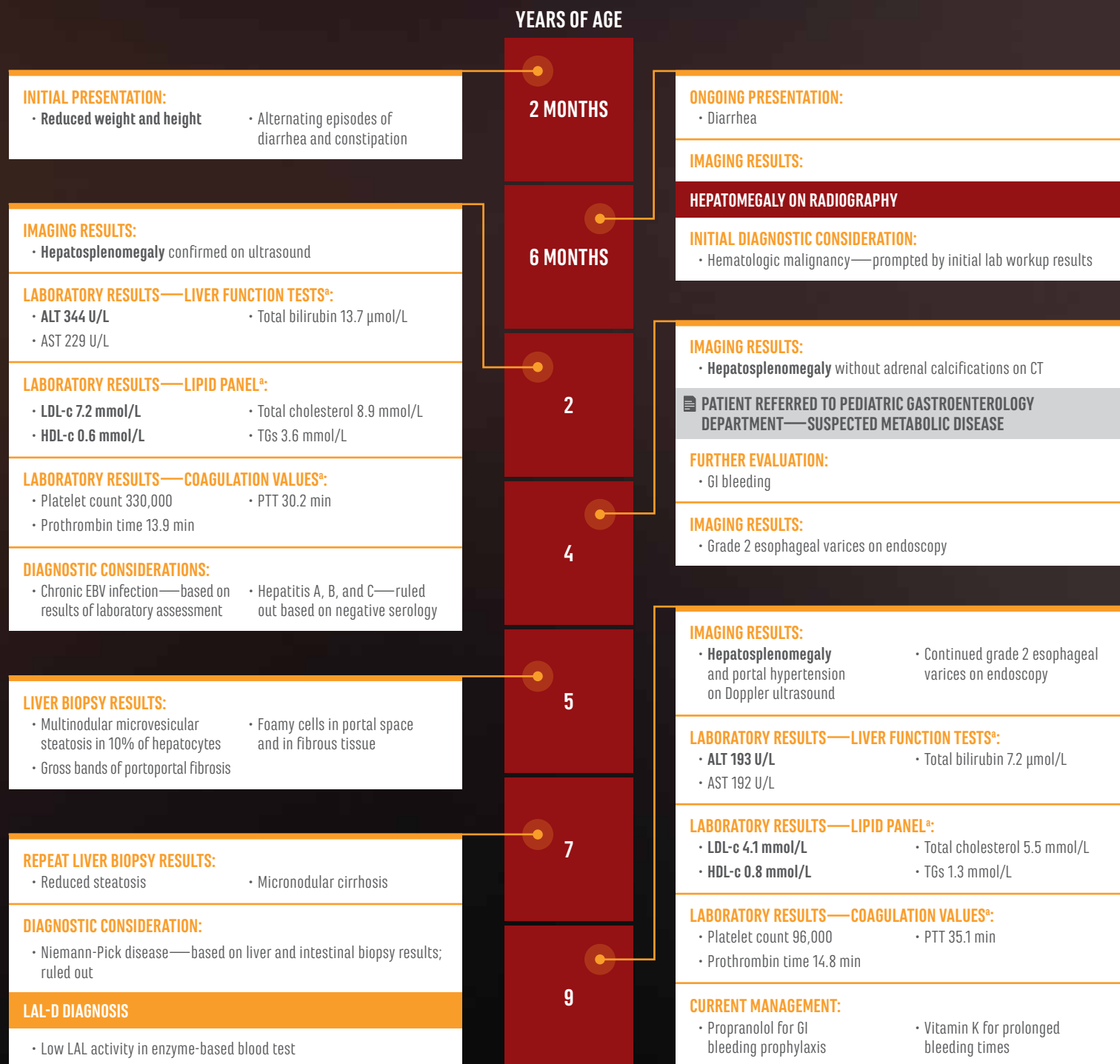


UNEXPLAINED HEPATOMEGALY, PROGRESSIVE LIVER DISEASE, AND DYSLIPIDEMIA PRECEDE MULTIORGAN DAMAGE¹

CASE REPORT: Female pediatric patient with Lysosomal Acid Lipase Deficiency (LAL-D)¹

Based upon a published case report:

Santillán-Hernández Y, et al. *World J Gastroenterol.* 2015;21:1001-8. doi:10.3748/wjg.v21.i3.1001.



^aNormal values: ALT, 7-45 U/L; AST, 8-50 U/L; total bilirubin, 1.7-15.4 μmol/L; LDL-c <2.6 mmol/L (optimal); HDL-c ≥1.6 mmol/L; total cholesterol <4.4 mmol/L; TGs <1.0 mmol/L; platelet count, 150,000-500,000; prothrombin time, 11-15 min; PTT, 25-33 min.¹

Abbreviations: ALT, alanine aminotransferase; AST, aspartate aminotransferase; CT, computed tomography; EBV, Epstein-Barr virus; GI, gastrointestinal; HDL-c, high-density lipoprotein cholesterol; LAL, lysosomal acid lipase; LDL-c, low-density lipoprotein cholesterol; PTT, partial thromboplastin time; TG, triglyceride.

KEY TAKEAWAYS

- Patients with LAL-D can develop severe morbidities in childhood and are at risk of **progressive liver failure, premature atherosclerosis, and multiorgan damage²**
- **Test for LAL-D** in patients with **unexplained hepatomegaly³**
- **Suspect LAL-D** in patients with **persistently elevated ALT and dyslipidemia²⁻⁴**

LAL-D and your practice

- Do you have any patients in your practice whose liver disease has preceded other multiorgan manifestations?
- Are you currently managing any patients with unexplained hepatomegaly?
- After ruling out the most common causes of hepatomegaly, how do you determine the underlying cause of liver disease in your patients? When do you start to suspect LAL-D?

LAL-D REQUIRES EARLY DIAGNOSIS

- Unexplained hepatomegaly should prompt immediate testing for LAL-D³
- Include LAL-D in the differential diagnosis of patients with persistently elevated ALT and dyslipidemia²⁻⁴
 - » An enzymatic blood test can confirm LAL-D; liver biopsy is not required^{3,5}

References: 1. Santillán-Hernández Y, et al. Novel *LIPA* mutations in Mexican siblings with lysosomal acid lipase deficiency. *World J Gastroenterol.* 2015;21:1001-8. doi:10.3748/wjg.v21.i3.1001. 2. Bernstein DL, et al. Cholesteryl ester storage disease: review of the findings in 135 reported patients with an underdiagnosed disease. *J Hepatol.* 2013;58:1230-43. doi:10.1016/j.jhep.2013.02.014. 3. Reiner Z, et al. Lysosomal acid lipase deficiency—an under-recognized cause of dyslipidaemia and liver dysfunction. *Atherosclerosis.* 2014;235:21-30. doi:10.1016/j.atherosclerosis.2014.04.003. 4. Burton BK, et al. *N Engl J Med.* 2015;373:1010-20. doi:10.1056/NEJMoa1501365. 5. Hamilton J, et al. A new method for the measurement of lysosomal acid lipase in dried blood spots using the inhibitor Lalostat 2. *Clin Chim Acta.* 2012;413:1207-10. doi:10.1016/j.cca.2012.03.019.

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