

GI MANIFESTATIONS AND GROWTH FAILURE PROMPT A BATTERY OF TESTS THAT DELAY DIAGNOSIS¹

CASE REPORT: Male infant patient with Lysosomal Acid Lipase Deficiency (LAL-D)¹

Based upon a published case report:

Sadhukhan M, et al. *BMJ Case Rep.* 2014. doi:10.1136/bcr-2013-202652.



^aNormal values: AST, 32-162 U/L (0-14 days), 20-67 U/L (15 days-<1 year).¹²

Abbreviations: AST, aspartate aminotransferase; GI, gastrointestinal; Hgb, hemoglobin; HLH, hemophagocytic lymphohistiocytosis; LAL, lysosomal acid lipase.

KEY TAKEAWAY

- LAL-D presenting in infants is a **medical emergency** and, if left untreated, leads to **imminent death**³

LAL-D IS RAPIDLY FATAL IN INFANTS—LEARN TO RECOGNIZE LAL-D AND AVOID MISDIAGNOSIS³

Devastating consequences of LAL-D in infants

Infants with LAL-D experience early and severe symptom onset.³

- 43% of patients experience symptom onset before 1 month of age³

Some of the most notable signs and symptoms of LAL-D in infants include

- Prominent hepatosplenomegaly³
- Adrenal calcification (seen in about 50% of patients)^{1,3}
- Growth failure³

With many devastating multiorgan manifestations, a multidisciplinary team approach can expedite diagnosis of LAL-D.^{4,5}

LAL-D IN INFANTS IS FATAL—RAPID DIAGNOSIS IS CRITICAL³

- Test for LAL-D with an enzymatic DBS test^{4,6}

Abbreviation: DBS, dried blood spot.

References: 1. Sadhukhan M, et al. Infant case of lysosomal acid lipase deficiency: Wolman's disease. *BMJ Case Rep.* 2014;2014:bcr2013202652. doi:10.1136/bcr-2013-202652. 2. Colantonio DA et al. Closing the gaps in pediatric laboratory reference intervals: a CALIPER database of 40 biochemical markers in a healthy and multiethnic population of children. *Clin Chem.* 2012;58:854-68. doi:10.1373/clinchem.2011.177741. 3. Jones SA, et al. Rapid progression and mortality of lysosomal acid lipase deficiency presenting in infants. *Genet Med.* 2016;18:452-8. doi:10.1038/gim.2015.108. 4. Reiner Z, et al. Lysosomal acid lipase deficiency—an under-recognized cause of dyslipidaemia and liver dysfunction. *Atherosclerosis.* 2014;235:21-30. 5. 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. 6. Hamilton J, et al. A new method for the measurement of lysosomal acid lipase in dried blood spots using the inhibitor Lalistat 2. *Clin Chim Acta.* 2012;413:1207-10. doi:10.1016/j.cca.2012.03.019.

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