



**Supplementary Fig. 1.** A new algorithm proposed for the diagnosis of inborn errors of metabolism in newborns at risk for false positive results in newborn screening (NBS). TPN, total parenteral nutrition; NICU, neonatal intensive care units; MCT, medium-chain triglycerides; NGS, next-generation sequencing; ACMG, American College of Medical Genetics and Genomics; TNGS, targeted next-generation sequencing; TNGS (+), detection of variants that are likely pathogenic, pathogenic, or of unknown significance; TNGS (-), detection of benign or likely benign variants or no variant detected; NBS (+), abnormal result; NBS (-), no remarkable result.