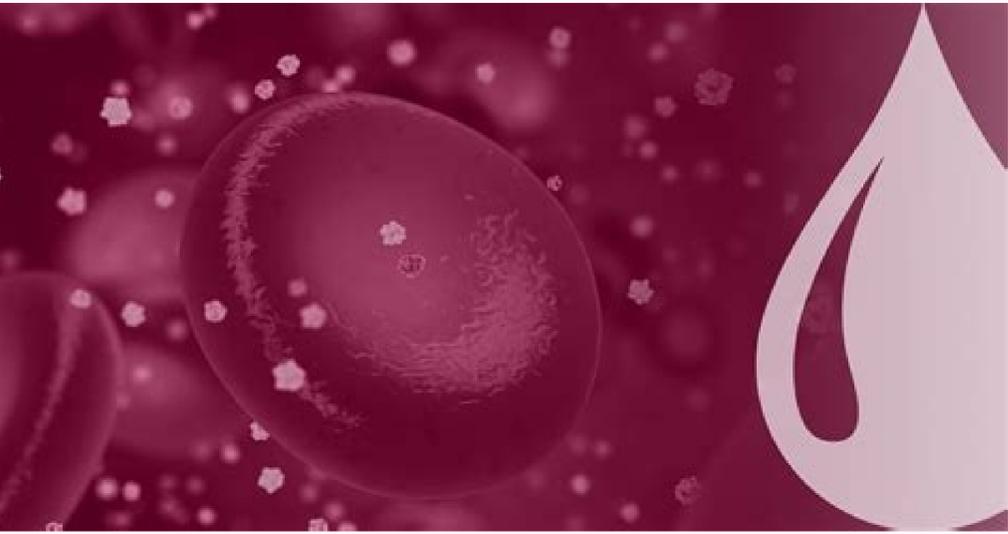


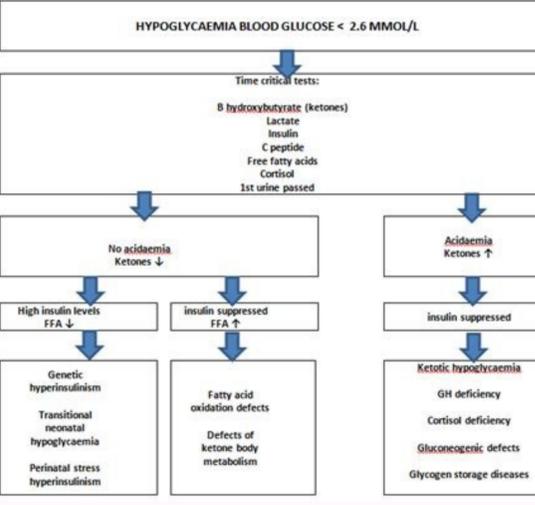
I'm not robot!

- Use growth hormone (GH) to normalize adult height (AH) and avoid extreme shortness in children and adolescents with growth hormone deficiency (GHD).
- Suggest against routine cardiovascular, dual energy absorptiometry (DXA) scanning, and measurement of lipid profiles in children and adolescents treated with GH.
- Establish a diagnosis of GHD without GH provocative testing in patients possessing all of the following 3 conditions: axonal criteria, hypothalamic-pituitary defect (such as major congenital malformation [ectopic posterior pituitary and pituitary hypoplasia/abnormal stalk], tumor, or irradiation), and deficiency of at least one additional pituitary hormone.
- GHD due to congenital hypopituitarism should be diagnosed without formal GH provocative testing in a newborn with hypoglycemia who does not attain a serum GH concentration above 5 µg/L and has deficiency of at least one additional pituitary hormone and/or the classical imaging triad (ectopic posterior pituitary and pituitary hypoplasia with a normal stalk).

Continued on next slide



	Birth	4 hrs	24 hrs	48 hrs
AAP 2013 Goal	< 25 mg/dl	< 35mg/dl	< 45mg/dl	< 45mg/dl
PES 23 Threshold	>35 mg/dl	> 40 mg/dl	> 45 mg/dl	> 45 mg/dl
GOAL	< 50 mg/dl	< 60 mg/dl	< 60 mg/dl	< 60 mg/dl



Hypoglycaemia endocrine society guidelines. Pediatric hypoglycemia guidelines. Pediatric endocrine society guidelines. Pediatric endocrine society neonatal hypoglycemia guidelines. Pediatric endocrinology society guidelines.

Hypoglycemia (HY) in pediatric age shows some peculiarities regarding its diagnosis and management, mostly linked to age dependent features in glucose homeostasis and to the broad spectrum of causes. Such causes can initially present with the same unspecific picture, but they require different treatment (1). While being frequent but hard to detect in neonatal age, it is less common in infants and toddlers, even rarer in older children (1-3). In childhood, HY is a common metabolic-endocrine emergency possibly causing permanent neurological consequences. It is therefore essential to promptly detect and treat children with HY as well as those at risk. It is crucial to appropriately investigate its specific etiology for providing adequate and specific therapy (3, 4). In this review, we present current knowledge on management of HY in neonates and children including difficulties in establishing thresholds for both definition and therapeutic intervention and providing a comprehensive overall diagnostic approach through the use of a simple practical flowchart (5-8). Controversies About Clinical and Biochemical Definition of Hypoglycemia/Glucose is the primary energy source for central nervous system metabolism, independently from the feeding state (1). Several metabolic pathways cooperate to ensure normal blood glucose concentrations in the fasted state (Figure 1). Such pathways are tightly regulated by the hormonal (insulin, glucagon, cortisol, and growth hormone) and autonomic (catecholamines) response. In case of impaired metabolic pathways and/or altered hormonal regulation, glucose could become too low to satisfy neuronal demand, causing classical symptoms of HY. In pediatric age, both glucose homeostasis and clinical presentation of HY show peculiarities compared to adults. In newborns, the adaptation to extruterine life, characterized by immature hormonal and enzymatic pathways, and the higher glucose requirement of the brain, lead to a higher HY risk compared to older children and adults (9). Infants and children, have less glycogen storage and a higher substrate demand. Figure 1 Schematic representation of the major metabolic pathways involved in glucose homeostasis during absorptive phase and fasting including exogenous carbohydrates (brown), glycogenesis (red), gluconeogenesis (blue), fatty acid oxidation (green), ketogenesis and ketolysis (yellow). These mechanisms are tightly controlled by hormonal regulation. Defects in specific enzymes or transporters involved in those pathways as well as endocrine disorders may result in fasting intolerance and hypoglycemia. FFA, free fatty acids, KB, ketone bodies. HY definition remains controversial in neonates and children. Some approaches define HY on the basis of symptoms, others on the plasma glucose value. In adolescents and adults, HY definition is based on the so-called "Whipple triad" (I) symptoms of HY, (II) blood glucose level below 60 mg/dl, (III) resolutions of symptoms after glucose intake. This definition appears inadequate for neonates and children in which symptoms are often subtle, and with the child being unable to communicate them (10). In addition, it is difficult to identify a single plasma glucose (PG) value below which symptoms of HY appear: in fact, symptoms appearance depends on additional factors, including the availability of alternative energy substrates (e.g. ketone bodies) and the severity, duration, and recurrence of low PG (7). Neurogenic symptoms are secondary to the neuroendocrine response, while neuroglycopenic symptoms are due to the low glucose availability to the brain. In neonates and infants, neuroglycopenic symptoms are not specific for HY. Therefore HY can be defined as the individualized condition in which PG concentration is low enough to cause symptoms and/or signs of impaired brain function (11). Based on the above-mentioned considerations, three age-based different clinical scenarios exist. Neonates 48 h of life, infants, and younger children unable to communicate: HY is defined as PG 7 years). The fasting should be stopped at any time if glucose concentration is below 2.6 mmol/L (47 mg/dl). Since newer diagnostic strategies (biochemistry and molecular biology) are rapidly becoming available, fasting test is not performed routinely; however, it can be helpful in selected cases (9). Glucagon test explores the response of glucagon injection during HY to assess the availability of glycogen for compensation of low blood glucose. It is typically used to CSII does not benefit from glucagon (with worsening hyperlactatemia) while an exaggerated glucose response to glucagon could be observed in case of CH. Due to its possible risks (prolonged HY) it has been largely superseded by enzyme or mutation analysis. Alternative causes of abnormality of the test results should always be ruled out (e.g. lactate elevation secondary to laborious sampling or increased pCO2 secondary to apnea during blood collection). Additional investigations/imaging tests can provide additional information. Abdominal ultrasound and Magnetic Resonance Imaging (MRI)/Computed tomography/Scintigraphy scan can define liver, spleen, pancreas, and kidneys morphology and structure (e.g. liver steatosis, liver adenomas, focal hyperplasia). Left hand and wrist X-ray can be helpful in patients with growth retardation. Specific additional investigations may be performed based on the accompanying clinical features (e.g. cardiac ultrasound, brain MRI). HY Comprehensive Flowchart The combination of the aforementioned information enables reaching a working diagnosis in most of the children presenting with HY. To date no consensus exists on a standardized diagnostic flowchart. Several algorithms with various starting points and workflow have been proposed (5, 7, 8). Although such algorithms can provide metabolic or endocrine specialists with specific pathophysiological insight, the two main groups of causes (namely endocrine and metabolic) may appear not clearly suited to the understanding and use of generalist pediatricians, which, on the other hand, are often the first level of observation of HY phenomena. Our center has a long-standing experience of cooperation between metabolic and endocrine experts in the management of childhood HY. In this respect, a comprehensive diagnostic flowchart is proposed (Figure 2). The major advantage of such flowchart is the ability to orient the diagnose, distinguishing both (main) metabolic and endocrine causes of childhood HY by using simple, routinely available tests such ketone bodies, emogas analysis, and lactate. As a matter of fact, data included in this flowchart can be easily implemented by physicians in a hospital setting, to obtain biochemical findings that should not be missed and that could be very useful to hypothesize the diagnosis. In order to provide adequate information, physicians should be aware that the flowchart applies to results collected on a "critical sample." Possible limitations include the lack of rarer disorders (e.g. PEPCK deficiency, GKD, CDG) and the inability to diagnose uncommon presentations of common disorders. Figure 2 Hypoglycemia diagnostic flowchart. Only the main diagnostic features that guide bedside diagnosis about the most common causes of pediatric HY are shown in the flowchart (e.g., hyperlactatemia is also found in OXPHOS defects and GSD I; hepatomegaly is also found in FBPase deficiency and GSD I). Firstly: the timing of HY is the starting point; the patients fasting tolerance can provide an essential clue to the diagnosis in children with fasting HY (e.g. HY after a short fast suggests hepatic GSD, HY after moderate to long fast suggests gluconeogenesis defects or FAOD/KB defects). Secondly: laboratory investigations play a pivotal role to reach a working diagnosis. In this respect, assessing the presence of (n) detectable ketones (as well as metabolic acidosis, hyperlactatemia and, if possible, FFA) on a "critical sample" is of paramount importance. Thirdly: the presence of hepatomegaly can help differentiating disorders causing fasting ketotic HY. So far, the resultant flowchart seems to facilitate the logical process leading to the diagnostic suspicion and help to address the biochemical and clinical elements that need to be sought. The subsequent diagnostic process is up to the specialists of the two endocrine and metabolic sectors. In case of HY in otherwise healthy children and/or with no recognizable pattern, intoxications/facitious causes should always be ruled out by toxicological tests on blood and urine (most common drugs include insulin, sulfonurea, beta-blockers, salicylates). Diagnosis can be confirmed through enzymatic and/or molecular testing for IMD and CH and challenge tests for endocrine disorders. Enzyme diagnostics is generally performed on blood cells or skin fibroblast (e.g. debranching enzyme or very-long chain acetyl-CoA dehydrogenase activity). However, some enzymes (e.g. G6Pase) are not expressed in these mediums and require a liver biopsy. Since liver biopsy is invasive, it has been largely superseded by DNA analysis. The recent role of NGS/DNA analysis has become increasingly sophisticated and rapid in recent years. Various techniques are used to search for mutations in IMD/CH genes; single gene analysis (Sanger sequencing) has been traditionally used to confirm a specific diagnostic suspicion, after a traditional work-up. When a group of disease is considered, the traditional diagnostic approach would involve a long process with subsequent gene-by-gene molecular analyses. The gene-by-gene technique has now been superseded and replaced by the analysis of panels with NGS techniques. The introduction of NGS represents a major advancement in the diagnostic approach, allowing in parallel sequencing of millions of small fragments of DNA. Given the difficulties in the diagnostic work-up in HY and due to the overlapping of clinical manifestations in several disorders of glucose metabolism, patients showing recurrent undiagnosed HY could be further investigated with an NGS-based approach. This modern technique has the potential to identify underrecognized rare disorders in the wide group of children with ketotic hypoglycemia, clinically diagnosed in the past as affected by benign idiopathic hypoglycemia. In addition to a targeted approach with gene panels, the NGS technology can be used through untargeted strategies based on whole-exome sequencing, having this approach also the potential to identify new genes involved in disorders of glucose metabolism (97). Discussion and Conclusive Remarks Despite being a common emergency in pediatrics (3, 4), there are still controversies on the definition and management of HY in neonates and children. Neither the standard diagnostic PG threshold nor the operative threshold are defined. Also, no consensus on the definition of at-risk neonates exists. Such uncertainties together with the broad spectrum of causes, make the approach to HY in childhood complex and time consuming. Irrespective of its cause, prompt recognition and treatment of acute HY are critical to prevent its complications (namely brain damage). Bolus administration of dextrose (either intravenously or orally) is the cornerstone of the treatment. Glucose requirements may vary depending on the patient's age (e.g. higher in neonates) and disease (e.g. up to 10-15 mg/kg/min of glucose or more can be required in children with CH). Since additional treatments can be necessary for specific disorders (e.g. specific dietary approach, drugs and cofactors in OA and FAOD or DXZ in CH) a timely etiological diagnosis is crucial. Once acute HY has been managed, pending the results of confirmatory tests (e.g. enzyme/DNA diagnostics) specific actions should be taken in order to prevent HY relapse. As a general recommendation, fasting must be avoided and adequate carbohydrate intake must be maintained during any metabolic stress. Tailored dietary treatment plan with frequent feedings and UCDS and/or tube feeding are the most common interventions, such a plan aims at ensuring glucose concentrations as stable as possible and is generally sufficient in patients with ketotic HY, hepatic GSD, and disorders of KB metabolism. Additional dietary interventions may be required for specific IMD (e.g. life-long fructose-, sucrose- sorbitol-restricted diet regimen in HFI, or low-protein diet in OA). Irrespective of their final diagnosis, in acute situations (e.g. intercurrent illness, prolonged fasting) patients can become catabolic, due to the combination of) high fever, a reduced intake, and/or increased losses. Therefore, it is important to know what to do in emergency situations. An emergency protocol is designed at this purpose (98). Patients (and caregivers) should be encouraged to always carry an emergency protocol with them and follow its instructions. As HY can be secondary to a variety of different disorders, a systematic multidisciplinary approach is ideal in caring for neonates and children with HY. Interestingly, there is no consensus on standardized diagnostic algorithms for childhood HY. Therefore, a comprehensive practical diagnostic flowchart (including the main endocrine and metabolic causes) is proposed to guide the diagnostic suspicion, highlighting a minimal set of clue clinical and biochemical findings at the time of HY, that can be easily investigated in any hospital, at any time of the day. In fact, it is of paramount importance that samples are collected during HY (i.e. "critical sample"), otherwise the diagnosis can be missed (biochemical investigations might result normal when euglycemia has been reached). As shown in the proposed diagnostic flowchart, the minimal set of biochemical findings in children presenting with HY includes ketones, lactate (both in blood and urine), and blood gases (i.e. metabolic acidosis). Such findings can help reaching a provisional diagnosis, which can be confirmed with additional (biochemical and/or genetic) tests. In this respect, collecting (and store adequately) additional samples at the time of HY is crucial. Laboratory data must also be appropriately integrated with anamnesic, dietary, clinical, and imaging information. The proposed flowchart aims at guiding the diagnostic management of a such common manifestation in pediatric age that can be due to a wide spectrum of causes. A double level usefulness is expected for the proposed flowchart: the first one is addressed to general pediatrician by providing the clinical-anamnesic and laboratory findings to be sought in order to refer the patient to the most appropriate Tertiary Center (Endocrinology/Metabolic/Genetic disease), the second level is for specialists in pediatric endocrine-metabolic diseases in order to remind them the wider etiological spectrum of pediatric HY by giving the essential elements of the differential diagnosis involving different areas (genetic, endocrine, and metabolic). In other word our flowchart aims to be a quick scheme to help pediatricians of every setting in managing HY, attempting to be comprehensive of the main disorders and differential diagnosis. Of course, mostly compared to the current available flowcharts focused on peculiar fields (metabolic or endocrinological), some rare conditions or rare presentations cannot be included. Sometimes, clinicians are not able to reach a final diagnosis, despite multiple efforts, due to the lack of specific biochemical pattern or atypical presentation of some disorders. In such cases, innovative diagnostic techniques can be considered. Even if much progress has been made over past years, many things remain to be discovered and clarified for diseases causing HY in childhood. Advances in diagnostic techniques (e.g. NGS) will identify specific defects or even new entities in a subgroup of patients who have been diagnosed with ketotic HY, likely resulting in a change in the disease epidemiology or in the discovery of new conditions (97). In conclusion, future studies are also needed to optimally define normal glucose thresholds in neonates and children (10). In addition, irrespective of the specific diagnosis prompt recognition and treatment of acute HY are critical to prevent its complications. An emergency protocol should start at the emergency hospital, collecting critical sample at the time of HY and providing specialists the clue results from simple tests that are available at any hospital at any time and that are very useful to address the clinical suspicion. Based on the recognized risks of some tests the traditional diagnostic process, including fasting or dynamic tests, is presently controversial and probably superseded by modern molecular diagnostic techniques. NGS approach has also the potential to diagnose disorders with mild biochemical abnormalities or atypical presentations or even to identify new diseases, changing the epidemiology of many disorders. In this respect, the development of extended collaboration networks for rare diseases is worthy (43). Author Contributions: AC and EM wrote the manuscript. EM, AF, SF and GP reviewed the manuscript. FM, CM and FDC edited the manuscript and collected data. EM and SF are the guarantors of this work and, as such, had full access to all the data in the study and take responsibility for the integrity of the data and the accuracy of the data analysis. All authors were responsible for drafting the article and revising it critically for important intellectual content. All authors contributed to the article and approved the submitted version. Conflict of Interest: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest. Publisher's Note: All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher. 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Supplementary Material: Supplementary Material for this article can be found online at: American Academy of Pediatrics: ACTH, Adreno-Corticotrophic Hormone; AL, Adrenal Insufficiency; BAPM, British Association for Perinatal Medicine; CAH, Congenital Adrenal Hyperplasia; CAI, Central Adrenal Insufficiency; CDG, Congenital Disorders of Glycosylation; CH, Congenital Hyperinsulinism; CoA, Coenzyme A; CPT, Carnitine Palmitoyl-Transferase; CRH, Corticotropin-Releasing Hormone; DXZ, Diazoxide; FAOD, Fatty Acid Oxidation Disorders; FBPase, Fructose 1,6 biphosphatase; FFA, Free Fatty Acids; G6Pase, Glucose-6-Phosphatase; GALT, Galactose-1-phosphate uridytransferase; GDH, Glutamate Dehydrogenase; Enzyme; GH, Growth Hormone; GHD, Growth Hormone Deficiency; GHRH, Growth Hormone-Releasing Hormone; GKD, Glycogen Kinase Deficiency; GLP-1, Glucagon-Like Peptide-1; GSD, Glycogen Storage Disease; HFI, Hereditary Fructose Intolerance; HY, Hypoglycemia; IGF1, Insulin Growth Factor I; IMD, Inborn Metabolic Disorder; IVA, Isovaleric Acidemia; KB, Ketone Bodies; LGA, Large for Gestational Age; MMA, Methylmalonic Acidemia; MRI, Magnetic Resonance Imaging; NBS, Newborn Screening; NGS, Next Generation Sequencing; OA, Organic Acidemias; OXPHOS, Oxidative Phosphorylation; PA, Propionic Acidemia; PAI, Primary Adrenal Insufficiency; PC, Pyruvate Carboxylase; PEPCK, Phosphoenolpyruvate Carboxykinase; PES, Pediatric Endocrine Society; PET, Positron Emission Tomography; PG, Plasma Glucose; SGA, Small for Gestational Age; UCDS, Uncoupled comarstach; UDP, Uridine Di-Phosphate; UOA, Urine Organic Acids; References: 3. Clarke W, Jones T, Rewers A, Dunger D, Klingensmith GJ. Assessment and Management of Hypoglycemia in Children and Adolescents With Diabetes. *Pediatr Diabetes* (2009) 10(Suppl 12):134-45. doi: 10.1111/j.1399-5448.2009.00583.xPubMed Abstract | CrossRef Full Text | Google Scholar 4. Kim SY. Endocrine and Metabolic Emergencies in Children: Hypocalcemia, Hypoglycemia, Adrenal Insufficiency, and Metabolic Acidosis Including Diabetic Ketoacidosis. *Ann Pediatr Endocrinol Metab* (2015) 20(4):179-86. doi: 10.6065/apem.2015.20.4.179PubMed Abstract | CrossRef Full Text | Google Scholar 5. Saudubray JM, van den Berghe G, Walter J eds. *Inherited Metabolic Diseases*. 6. Berlin, Germany: Springer (2016). Google Scholar 7. Thornton PS, Stanley CA, De Leon DD, Harris D, Haymond MW, Hussain K, et al. Recommendations From the Pediatric Endocrine Society for Evaluation and Management of Persistent Hypoglycemia in Neonates, Infants, and Children. *J Pediatr* (2015) 167(2):238-45. doi: 10.1016/j.jpeds.2015.03.057PubMed Abstract | CrossRef Full Text | Google Scholar 10. Karamantziou Z, Katsikis P, et al. Recovery From Insulin-Induced Hypoglycemia After Saccharose or Glucose Administration. *Clin Physiol Biochem* (1990) 9(3):267-72. PubMed Abstract | Google Scholar 31. Arnoux JB, Verkarre V, Saint-Martin C, Montravers F, Brassier A, Valayannopoulos V, et al. Congenital Hyperinsulinism: Current Trends in Diagnosis and Therapy. *Orphanet J Rare Dis* (2011) 6:63. doi: 10.1186/1750-1172-6-63PubMed Abstract | CrossRef Full Text | Google Scholar 32. Galcheva S, Demirbilek H, Al-Khawaga S, Hussain K. The Genetic and Molecular Mechanisms of Congenital Hyperinsulinism. *Front Endocrinol (Lausanne)* (2019) 10:111. doi: 10.3389/fendo.2019.01111PubMed Abstract | CrossRef Full Text | Google Scholar 33. Arya VB. Congenital Hyperinsulinism: Clinical and Molecular Characterisation of Compound Heterozygous ABC8C Mutation Responsive to Diazoxide Therapy. *Int J Pediatr Endocrinol* (2014) 2014(1):24. doi: 10.1186/1687-9856-2014-24PubMed Abstract | CrossRef Full Text | Google Scholar 34. Taylor-Miller T. Congenital Hyperinsulinism Due to Compound Heterozygous Mutations in ABC8C Responsive to Diazoxide Therapy. *J Pediatr Endocrinol Metab* (2020) 33(5):671-4. doi: 10.1515/jpem-2019-0457PubMed Abstract | CrossRef Full Text | Google Scholar 35. Kumaran A, Kapoor RR, Flanagan SE, Ellard S, Hussain K. Congenital Hyperinsulinism Due to a Compound Heterozygous ABC8C Mutation With Spontaneous Resolution at Eight Weeks. *Hormone Res Paediatr* (2010) 73:287-92. doi: 10.1159/000284394CrossRef Full Text | Google Scholar 26. Ter M, Hallibullu I, Leung L, Jacobs S. Implementation of Dextrose Gel in the Management of Neonatal Hypoglycemia. *J Paediatr Child Health* (2017) 53(4):408-11. doi: 10.1111/jpc.13409PubMed Abstract | CrossRef Full Text | Google Scholar 27. Rawat M, Chandrasekharan P, Turkovich S, Barclay N, Perry K, Schroeder E, et al. Oral Dextrose Gel Reduces the Need for Intravenous Dextrose Therapy in Neonatal Hypoglycemia. *BioMed Hub* (2016) 13(1):1-9. doi: 10.1159/000448511CrossRef Full Text | Google Scholar 29. Lee BN, Wolverson TM. Effect of Glucose, Fructose and Insulin Responses in Normal Humans: Comparison With White Bread. *Eur J Clin Nutr* (1998) 52(12):924-8. doi: 10.1038/ejcn.1998.1606666PubMed Abstract | CrossRef Full Text | Google Scholar 38. Mohamed Z, Arya VB, Hussain K. Hyperinsulinemic Hypoglycemia: Genetic Mechanisms, Diagnosis and Management. *J Clin Res Pediatr Endocrinol* (2012) 4(4):169-81. doi: 10.4274/jcrpe.821PubMed Abstract | CrossRef Full Text | Google Scholar 39. Abdulhadi-Atwan M, Bushman J, Tornovsky-Babey S, Perry A, Abu-Libdeh A, Glaser B, et al. Novel De Novo Mutation in Sulfonurea Receptor 1 Presenting as Hyperinsulinism in Infancy Followed by Overt Diabetes in Early Adolescence. *Diabetes* (2008) 57(1):1935-40. doi: 10.2337/db08-0159PubMed Abstract | CrossRef Full Text | Google Scholar 40. Casertano A, De Matteis A, Mozzillo E, Rosanio FM, Buono P, Fattorusso V, et al. Diagnosis of Congenital Hyperinsulinism Can Occur Not Only in Infancy But Also in Later Age: A New Flow Chart From a Single Center Experience. *Ital J Pediatr* (2020) 46(1):131. doi: 10.1186/s13052-020-00894-5PubMed Abstract | CrossRef Full Text | Google Scholar 41. Vieira TR, Bergamin CS, Gurgel LC, Moisés RS. Hyperinsulinemic Hypoglycemia Evolving to Gestational Diabetes and Diabetes Mellitus in a Family Carrying the Inactivating ABC8 E1506K Mutation. *Pediatr Diabetes* (2010) 11(7):505-8. doi: 10.1111/j.1399-5448.2009.00626.xPubMed Abstract | CrossRef Full Text | Google Scholar 43. Derks TGJ, Nemeth A, Adrian K, Arnell H, Roskjaer AB, Beijer E, et al. Hepatic Glycogen Storage Diseases Toward One Global Collaborative Network. *J Inborn Errors Metab Screen* (2017) 52(12):1051-9. doi: 10.1177/2326409817733009 Porto Alegre. CrossRef Full Text | Google Scholar 44. Maiorana A, Barbetti F, Boiani A, Ruffini V, Pizzoferrato M, Francalanci P. Focal Congenital Hyperinsulinism Managed by Medical Treatment: A Diagnostic Algorithm Based on Molecular Genetic Screening. *Clin Endocrinol (Oxf)* (2014) 81(5):679-88. doi: 10.1111/cen.12400PubMed Abstract | CrossRef Full Text | Google Scholar 45. Van der Steen I. A Multicenter Experience With Long-Acting Somatostatin Analogues in Patients With Congenital Hyperinsulinism. *Horm Res Paediatr* (2018) 89(2):82-9. doi: 10.1159/000485184PubMed Abstract | CrossRef Full Text | Google Scholar 46. Haris B. Somatostatin Analogues for the Treatment of Hyperinsulinemic Hypoglycemia. *Ther Adv Endocrinol Metab* (2020) 11:1-23. doi: 10.1177/204201820965068204201820965068CrossRef Full Text | Google Scholar 47. Shah P. Use of Long-Acting Somatostatin Analogue (Lanreotide) in an Adolescent With Diazoxide-Responsive Congenital Hyperinsulinism and Its Psychological Impact. *Horm Res Paediatr* (2015) 84:355-60. doi: 10.1159/000439131PubMed Abstract | CrossRef Full Text | Google Scholar 48. Yang SB. Rapamycin Induces Glucose Intolerance in Mice by Reducing Islet Mass, Insulin Content, and Insulin Sensitivity. *J Mol Med (Berl)* (2012) 90:575-85. doi: 10.1007/s0109-011-0834-3PubMed Abstract | CrossRef Full Text | Google Scholar 49. Hashemian S. Clinical Efficacy Evaluation of Sirolimus in Congenital Hyperinsulinism. *Int J Endocrinol* (2020) 2020:1-6. doi: 10.1155/2020/7250406CrossRef Full Text | Google Scholar 50. Scaramuzza A, Cherubini V, Tumini S, Bonfanti R, Buono P, Cardella F, et al. Recommendations for Self-Monitoring in Pediatric

Diabetes: A Cross-Sectional Study in the ISPED. *Acta Diabetol* (2014) 51(2):173-84. doi: 10.1007/s00592-013-0521-7PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 51. Piona C, Marigiano M, Mozzillo E, Franzese A, Zanfardino A, Iafusco D, et al. Long-Term Glycemic Control and Glucose Variability Assessed With Continuous Glucose Monitoring in a Pediatric Population With Type 1 Diabetes: Determination of Optimal Sampling Duration. *Pediatr Diabetes* (2020) 21(8):1485-92. doi: 10.1111/peidi.13115PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 53. Shulman DI, Palmert MR, Kemp SF, Lawson Wilkins Drug and Therapeutics Committee. Adrenal Insufficiency: Still a Cause of Morbidity and Death in Childhood. *Pediatrics* (2007) 119(2):e484-94. doi: 10.1542/peds.2006-1612PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 54. Bornstein SR, Allolio B, Arlt W, Barthel A, Don-Wauchope A, Hammer GD, et al. Diagnosis and Treatment of Primary Adrenal Insufficiency: An Endocrine Society Clinical Practice Guideline. *J Clin Endocrinol Metab* (2016) 101(2):364-89. doi: 10.1210/jc.2015-1710PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 55. Ioakim KJ, Sydney GI, Paschou SA. Glucose Metabolism Disorders in Patients With Adrenal Gland Disorders: Pathophysiology and Management. *Hormones (Athens)* (2020) 19(2):135-43. doi: 10.1007/s42000-019-00147-zPubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 56. Kioussis D, Reshef L, Cohen H, Tilghman SM, Iynedjian PB, Ballard FJ, et al. Alterations in Translatable Messenger RNA Coding for Phosphoenolpyruvate Carboxykinase (GTP) in Rat Liver Cytosol During Deinduction. *J Biol Chem* (1978) 253(12):4327-32. doi: 10.1016/S0021-9258(17)34723-3PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 57. Ballard FJ, Hopgood MF, Reshef L, Tilghman S, Hanson RW. Synthesis of Phosphoenolpyruvate Carboxykinase (Guanosine Triphosphate) by Isolated Liver Polyribosomes. *Biochem J* (1974) 144(2):199-207. doi: 10.1042/bj1440199PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 58. Iynedjian PB, Ballard FJ, Hanson RW. The Regulation of Phosphoenolpyruvate Carboxykinase (GTP) Synthesis in Rat Kidney Cortex. The Role of Acid-Base Balance and Glucocorticoids. *J Biol Chem* (1975) 250(14):5596-603. doi: 10.1016/S0021-9258(19)41221-0PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 60. Djurhuus CB, Gravholt CH, Nielsen S, Mengel A, Christiansen JS, Schmitz OE, et al. Effects of Cortisol on Lipolysis and Regional Interstitial Glycerol Levels in Humans. *Am J Physiol Endocrinol Metab* (2002) 283(1):E172-7. doi: 10.1152/ajpendo.00544.2001PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 61. Kirkgoz T, Guran T. Primary Adrenal Insufficiency in Children: Diagnosis and Management. *Best Pract Res Clin Endocrinol Metab* (2018) 32(4):397-424. doi: 10.1016/j.beem.2018.05.010PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 63. Wajarajeh MP, Gertner JM, Harbison MD, Chua SC Jr, Leibel RL. Nonsense Mutation in the Human Growth Hormone-Releasing Hormone Receptor Causes Growth Failure Analogous to the Little (Lit) Mouse. *Nat Genet* (1996) 12(1):88-90. doi: 10.1038/ng0196-88PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 64. Moseley CT, Mullis PE, Prince MA, Phillips JA 3rd. An Exon Splice Enhancer Mutation Causes Autosomal Dominant GH Deficiency. *J Clin Endocrinol Metab* (2002) 87(2):847-52. doi: 10.1210/jcem.87.2.8236PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 65. Scotti G, Triulzi F, Chiumello G, Dinatale B. New Imaging Techniques in Endocrinology: Magnetic Resonance of the Pituitary Gland and Sella Turcica. *Acta Paediatr Scand Suppl* (1989) 356:5-14. doi: 10.1111/j.1651-2227.1989.tb11235.xPubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 67. Di Iorgi N, Morana G, Allegri AE, Napoli F, Gastaldi R, Calcagno A, et al. Classical and non-Classical Causes of GH Deficiency in the Paediatric Age. *Best Pract Res Clin Endocrinol Metab* (2016) 30(6):705-36. doi: 10.1016/j.beem.2016.11.008PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 68. Phillips JA 3rd, Hjelte BL, Seeburg PH, Zachmann M. Molecular Basis for Familial Isolated Growth Hormone Deficiency. *Proc Natl Acad Sci U S A* (1981) 78(10):6372-5. doi: 10.1073/pnas.78.10.6372PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 69. Growth Hormone Research Society. Consensus Guidelines for the Diagnosis and Treatment of Growth Hormone (GH) Deficiency in Childhood and Adolescence: Summary Statement of the GH Research Society. *J Clin Endocrinol Metab* (2000) 85(11):3990-3. doi: 10.1210/jcem.85.11.6984PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 70. Melis D, Rossi A, Pivonello R, Salerno M, Balivo F, Spadarella S, et al. Glycogen Storage Disease Type Ia (Gsdia) But Not Glycogen Storage Disease Type Ib (Gsdib) is Associated to an Increased Risk of Metabolic Syndrome: Possible Role of Microsomal Glucose 6-Phosphate Accumulation. *Orphanet J Rare Dis* (2015) 10:91. doi: 10.1186/s13023-015-0301-2PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 71. Ross KM, Ferrecchia IA, Dahlberg KR, Dambaska M, Ryan PT, Weinstein DA. Dietary Management of the Glycogen Storage Diseases: Evolution of Treatment and Ongoing Controversies. *Adv Nutr* (2020) 11(2):439-46. doi: 10.1093/advances/nmz092PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 72. Kishnani PS, Austin SL, Abdenuur JE, Arn P, Bali DS, Doney A, et al. Diagnosis and Management of Glycogen Storage Disease Type I: A Practice Guideline of the American College of Medical Genetics and Genomics. *Genet Med* (2014) 16(11):e1. doi: 10.1038/gim.2014.128PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 73. Roe TF, Thomas DW, Gilsanz V, Isaacs H Jr, Atkinson JB. Inflammatory Bowel Disease in Glycogen Storage Disease Type Ib. *J Pediatr* (1986) 109(1):55-9. doi: 10.1016/s0022-3476(86)80572-8PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 74. Melis D, Pivonello R, Parenti G, Della Casa R, Salerno M, Lombardi G, et al. Increased Prevalence of Thyroid Autoimmunity and Hypothyroidism in Patients With Glycogen Storage Disease Type I. *J Pediatr* (2007) 150(3):300-5. doi: 10.1016/j.jpeds.2006.11.056PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 75. Melis D, Della Casa R, Balivo F, Minopoli G, Rossi A, Salerno M, et al. Involvement of Endocrine System in a Patient Affected by Glycogen Storage Disease 1b: Speculation on the Role of Autoimmunity. *Ital J Pediatr* (2014) 40(1):30. doi: 10.1186/1824-7288-40-30PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 76. Rossi A, Ruoppolo M, Formisano P, Villani G, Albano L, Gallo G, et al. Insulin-Resistance in Glycogen Storage Disease Type Ia: Linking Carbohydrates and Mitochondria? *J Inherit Metab Dis* (2018) 41(6):985-95. doi: 10.1007/s10545-018-0149-4PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 77. Rossi A, Simeoli C, Salerno M, Ferrigno R, Della Casa R, Colao A, et al. Imbalanced Cortisol Concentrations in Glycogen Storage Disease Type I: Evidence for a Possible Link Between Endocrine Regulation and Metabolic Derangement. *Orphanet J Rare Dis* (2020) 15(1):99. doi: 10.1186/s13023-020-01377-wPubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 78. Melis D, Rossi A, Pivonello R, Del Puente A, Pivonello C, Cangemi G, et al. Reduced Bone Mineral Density in Glycogen Storage Disease Type III: Evidence for a Possible Connection Between Metabolic Imbalance and Bone Homeostasis. *Bone* (2016) 86:79-85. doi: 10.1016/j.bone.2016.02.012PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 79. Rossi A, Hoogeveen IJ, Bastek VB, de Boer F, Montanari C, Meyer U, et al. Dietary Lipids in Glycogen Storage Disease Type III: A Systematic Literature Study, Case Studies, and Future Recommendations. *J Inherit Metab Dis* (2020) 43(4):770-7. doi: 10.1002/jimd.12224PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 80. Kishnani PS, Goldstein J, Austin SL, Arn P, Bachrach B, Bali DS, et al. Diagnosis and Management of Glycogen Storage Diseases Type VI and IX: A Clinical Practice Resource of the American College of Medical Genetics and Genomics (Acmg). *Genet Med* (2019) 21(4):772-89. doi: 10.1038/s41436-018-0364-2PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 81. Kamenets EA, Gusarova EA, Milovanova NV, Itkis YS, Strokova TV, Melikyan MA, et al. Hepatic Glycogen Synthase (GYS2) Deficiency: Seven Novel Patients and Seven Novel Variants. *JIMD Rep* (2020) 53(1):39-44. doi: 10.1002/jimd.12082PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 82. Arko JJ, Debeljak M, Tasek MZ, Battelino T, Grosej U. A Patient With Glycogen Storage Disease Type 0 and a Novel Sequence Variant in GYS2: A Case Report and Literature Review. *J Int Med Res* (2020) 48(8):1-8. doi: 10.1177/0300060520936857CrossRef Full Text | [Google Scholar](#) 83. Di Dato F, Spadarella S, Puoti MG, Caprio MG, Pagliardini S, Zuppaldi C, et al. Daily Fructose Traces Intake and Liver Injury in Children With Hereditary Fructose Intolerance. *Nutrients* (2019) 11(10):2397. doi: 10.3390/nu11102397CrossRef Full Text | [Google Scholar](#) 84. Van Schaftingen LHE. Fructose 2,6-Bisphosphate. *Adv Enzymol Relat Areas Mol Biol* (1987) 59:315-95. doi: 10.1002/9780470123058.ch7CrossRef Full Text | [Google Scholar](#) 86. Weinstein DA, Steuerwald U, De Souza CFM, Derks TGJ. Inborn Errors of Metabolism With Hypoglycemia: Glycogen Storage Diseases and Inherited Disorders of Gluconeogenesis. *Pediatr Clin North Am* (2018) 65(2):247-65. doi: 10.1016/j.pcl.2017.11.005PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 87. Sjarif DR, Ploos van Amstel JK, Duran M, Beemer FA, Poll-The BT. Isolated and Contiguous Glycerol Kinase Gene Disorders: A Review. *J Inherit Metab Dis* (2000) 23(6):529-47. doi: 10.1023/a:1005660826652PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 90. Tucci S, Behringer S, Sturm M, Grünert SC, Spiekeroetter U. Implementation of a Fast Method for the Measurement of Carnitine Palmitoyltransferase 2 Activity in Lymphocytes by Tandem Mass Spectrometry as Confirmation for Newborn Screening. *J Inherit Metab Dis* (2019) 42(5):850-6. doi: 10.1002/jimd.12098PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 91. Spiekeroetter U, Lindner M, Santer R, Grotzke M, Baumgartner MR, Boehles H, et al. Management and Outcome in 75 Individuals With Long-Chain Fatty Acid Oxidation Defects: Results From a Workshop. *J Inherit Metab Dis* (2009) 32(4):488-97. doi: 10.1007/s10545-009-1125-9PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 95. Hörster F, Kölker S, Loeber JG, Cornet MC, Hoffmann GF, Burgard P. Newborn Screening Programmes in Europe, Arguments and Efforts Regarding Harmonisation: Focus on Organic Acidurias. *JIMD Rep* (2017) 32:105-15. doi: 10.1007/8904_2016_537PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 96. Hoogeveen IJ, van der Ende RM, van Spronsen FJ, de Boer F, Heiner-Fokkema MR, Derks TG. Normoglycemic Ketonemia as Biochemical Presentation in Ketotic Glycogen Storage Disease. *JIMD Rep* (2016) 28:41-7. doi: 10.1007/8904_2015_511PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 97. Brown LM, Corrado MM, van der Ende RM, Derks TG, Chen MA, Siegel S, et al. Evaluation of Glycogen Storage Disease as a Cause of Ketotic Hypoglycemia in Children. *J Inherit Metab Dis* (2015) 38(3):489-93. doi: 10.1007/s10545-014-9744-1PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#) 98. Rossi A, Hoogeveen IJ, Lubout CMA, de Boer F, Fokkert-Wilts MJ, Rodenburg IL, et al. A Generic Emergency Protocol for Patients With Inborn Errors of Metabolism Causing Fasting Intolerance: A Retrospective, Single-Center Study and the Generation of Www.Emergencyprotocol.Net. *J Inherit Metab Dis* (2021) 1-12. doi: 10.1002/jimd.12386 Online ahead of print.PubMed Abstract | [CrossRef Full Text](#) | [Google Scholar](#)

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