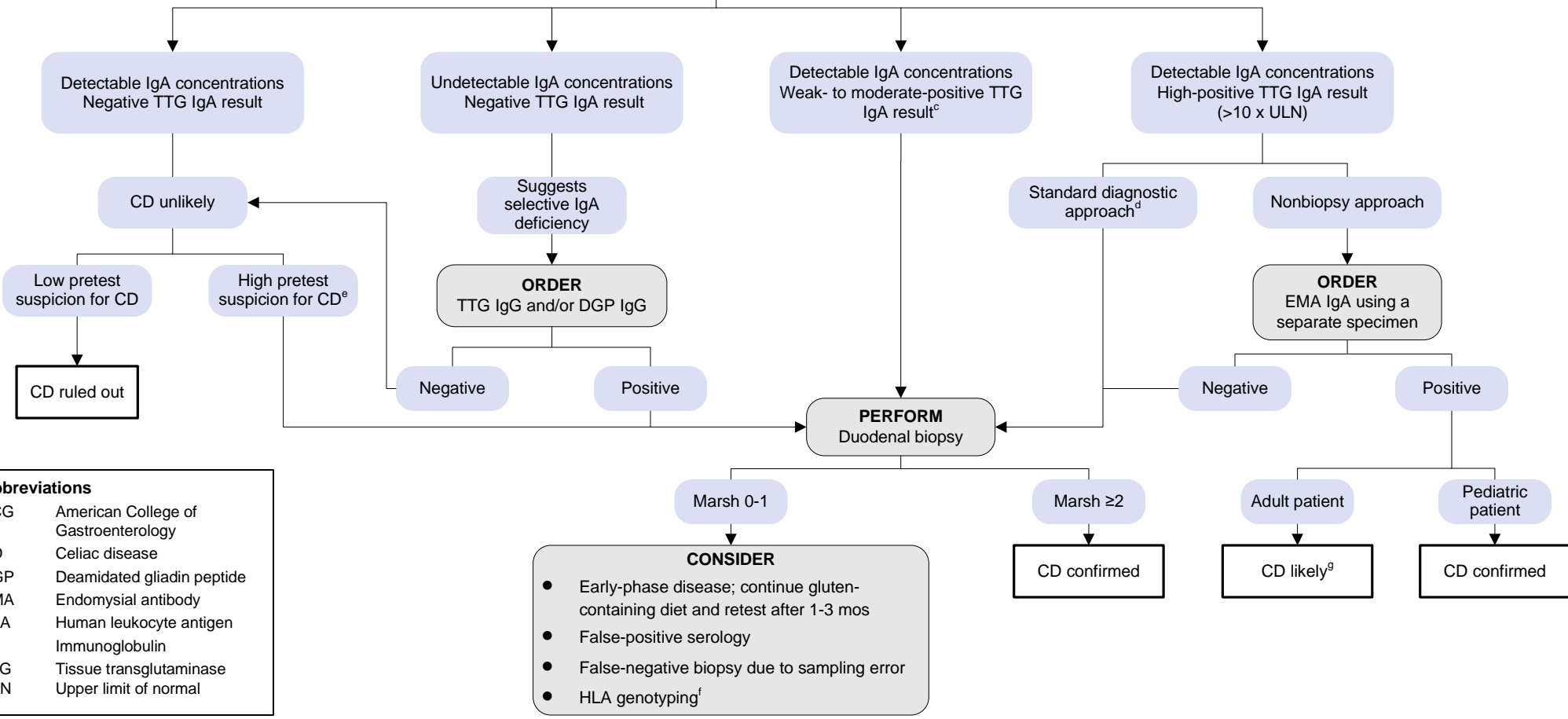


Symptomatic Celiac Disease Testing Algorithm

[Click here for topics associated with this algorithm](#)

INDICATIONS FOR TESTING^a
 Chronic and unexplained gastroenterologic symptoms, poor growth, weight loss, iron deficiency anemia, and delayed puberty, among other symptoms

ORDER
 TTG IgA and Total IgA^b



Abbreviations

ACG	American College of Gastroenterology
CD	Celiac disease
DGP	Deamidated gliadin peptide
EMA	Endomysial antibody
HLA	Human leukocyte antigen
Ig	Immunoglobulin
TTG	Tissue transglutaminase
ULN	Upper limit of normal

CONSIDER

- Early-phase disease; continue gluten-containing diet and retest after 1-3 mos
- False-positive serology
- False-negative biopsy due to sampling error
- HLA genotyping^f

^aSerologic and histologic testing must be performed while the patient is consuming a regular, gluten-containing diet.
^bTotal IgA testing is not required if selective IgA deficiency is known or has been previously ruled out. If selective IgA deficiency is present, test with TTG IgG or DGP IgG serologies.
^cIn individuals with weak- to moderate-positive TTG IgA results, additional DGP IgA and/or EMA IgA testing may be considered before biopsy to increase diagnostic confidence.
^dThe standard diagnostic approach, which includes a confirmatory biopsy, is recommended unless biopsy is refused or is not feasible.
^eACG recommends biopsy following negative serologies if there was a high pretest suspicion for CD (eg, to rule out possible seronegative CD).
^fHLA genotyping may be useful to clarify discrepant serology and histology. A negative HLA result rules out CD. A positive HLA result is permissive of CD but cannot be used to confirm a diagnosis.
^gBiopsy is required to confirm a diagnosis of CD in adults. A diagnosis of "likely CD" can be issued if biopsy is refused or is not feasible.

References

1. Rubio-Tapia A, Hill ID, Semrad C, et al. [American College of Gastroenterology guidelines update: diagnosis and management of celiac disease](#). *Am J Gastroenterol*. 2023;118(1):59-76.
2. Husby S, Koletzko S, Korponay-Szabó I, et al. [European Society Paediatric Gastroenterology, Hepatology and Nutrition guidelines for diagnosing coeliac disease 2020](#). *J Pediatr Gastroenterol Nutr*. 2020;70(1):141-156.