Celiac Disease Diagnostic Testing Algorithm

- **Testing for selective IgA deficiency**
  - IgA anti-TG and IgA anti-gliadin
  - IgA >1 mg/dL and below age-matched reference values
  - **Selective IgA deficiency***

- **TTGA / Tissue Transglutaminase (tTG) Antibody, IgA, Serum**
  - IgA ≥1 mg/dL and below age-matched reference values

- **IGA / Immunoglobulin A (IgA), Serum**
  - TTGA / Tissue Transglutaminase (tTG) Antibody, IgA, Serum
  - TSTGP / Tissue Transglutaminase (tTG) Antibodies, IgA and IgG Profile, Serum
  - DGLDN / Gliadin (Deamidated) Antibodies Evaluation, IgG and IgA, Serum

- **TTGG / Tissue Transglutaminase (tTG) Antibody, IgG, Serum**
  - DGGL / Gliadin (Deamidated) Antibody, IgG, Serum

- **DAGL / Gliadin (Deamidated) Antibody, IgA, Serum**
  - EMA / Endomysial Antibodies (IgA), Serum

- **EMA / Endomysial Antibodies (IgA), Serum**
  - Proceed to biopsy

- **Biopsy results inconsistent with serology**

- **CELI / Celiac-Associated HLA-DQ Alpha 1 and DQ Beta 1 Medium-High Resolution DNA Typing, Blood**
  - CELI / Celiac-Associated HLA-DQ Alpha 1 and DQ Beta 1 Medium-High Resolution DNA Typing, Blood
  - Not celiac disease
  - Possible celiac disease

- **Possible false-positive tTG result**
  - Celiac disease possible but unlikely
  - If strong suspicion of celiac disease remains, perform HLA typing.

- **Possible celiac disease**

- **Follow-up patient for future development of celiac disease**

*For individuals with clinical symptoms suggestive of recurrent infections, suggest further evaluation for possible primary immunodeficiency:
- IGGS / IgG Subclasses, Serum
- IMMIG / Immunoglobulins (IgG, IgA, and IgM), Serum

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