Celiac Disease Comprehensive Cascade Test Algorithm

Testing begins with:
- Immunoglobulin A (IgA)
- Celiac-associated HLA-DQ typing

Normal or elevated IgA

- Tissue transglutaminase, IgA antibodies

- WEAK POSITIVE (4.0-10.0 U/mL)
  - Endomysial antibodies (IgA)
  - Gliadin (deamidated) antibody, IgA

- POSITIVE or NEGATIVE (>10.0 U/mL or <4.0 U/mL)
  - Endomysial antibody, IgA
  - Gliadin (deamidated) antibody, IgA

- Interpretive report includes:
  - Serum IgA
  - Celiac-associated HLA-DQ typing
  - Tissue transglutaminase antibody, IgA
  - Interpretive comments

Deficient IgA (<1.0 mg/dL)

- Low IgA (>1.0 mg/dL but below the age-matched reference values)
  - Tissue transglutaminase antibodies, IgA and IgG profile
  - Gliadin (deamidated) antibodies evaluation, IgG and IgA

- Selective IgA deficiency
  - Tissue transglutaminase antibody, IgG
  - Gliadin (deamidated) antibody, IgG

- Interpretive report includes:
  - Serum IgA
  - Celiac-associated HLA-DQ typing
  - Tissue transglutaminase antibody, IgA
  - Gliadin (deamidated) antibodies, IgA and IgG
  - Interpretive comments

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