C1q Antibody, IgG

Systemic lupus erythematosus (SLE) is an autoimmune disease with multiorgan involvement. Approximately 37-45% of patients with SLE will develop lupus nephritis, which negatively impacts patient survival.\(^1\) Testing for C1q antibodies assists in evaluating the risk of lupus nephritis development.\(^2\)

Disease Overview

Physiology

C1q antibodies are associated with active glomerulonephritis in patients with SLE.\(^2\) The presence of antibodies in patients with SLE indicates a higher risk for developing severe clinical manifestations of the disease. Specifically, the presence of C1q antibodies correlates with renal activity and flares, and the absence of antibodies indicates a low probability of lupus nephritis.\(^2\)

Test Interpretation

Sensitivity/Specificity

- Clinical sensitivity and specificity vary based on disease population and disease state
- Analytical sensitivity and specificity vary based on disease population and disease state as well as testing platform

Results

- Negative: 0-19 units
- Equivocal: 20-39 units
- Positive: ≥40 units

Limitations

- Not all patients with lupus nephritis will be positive for C1q antibodies
- The presence of C1q antibodies is not specific for SLE

References


Related Information

- Mixed Connective Tissue Disease - MCTD
- Systemic Lupus Erythematosus - SLE
Related Tests

**Antinuclear Antibody (ANA) with HEp-2 Substrate, IgG by IFA with Reflex by Pattern** 3000601

**Antinuclear Antibodies (ANA), IgG by ELISA with Reflex to ANA, HEp-2 Substrate, IgG by IFA** 0050080
*Method:* Qualitative Enzyme-Linked Immunosorbent Assay/Semi-Quantitative Indirect Fluorescent Antibody

**Connective Tissue Diseases Profile** 0051668
*Method:* Semi-Quantitative Multiplex Bead Assay

**Antinuclear Antibodies (ANA), IgG by ELISA with Reflex to ANA HEp-2 Substrate, IgG by IFA and ENA Confirmation** 0050317
*Method:* Qualitative Enzyme-Linked Immunosorbent Assay/Semi-Quantitative Indirect Fluorescent Antibody/Semi-Quantitative Multiplex Bead Assay

**Double-Stranded DNA (dsDNA) Antibody, IgG by ELISA with Reflex to dsDNA Antibody, IgG by IFA** 0050215
*Method:* Qualitative Enzyme-Linked Immunosorbent Assay/Semi-Quantitative Indirect Fluorescent Antibody

**Double-Stranded DNA (dsDNA) Antibody, IgG by IFA (using Crithidia luciliae)** 2002693
*Method:* Semi-Quantitative Indirect Fluorescent Antibody

**Smith and Smith/RNP (ENA) Antibodies, IgG** 3000460
*Method:* Semi-Quantitative Multiplex Bead Assay

**Smith (ENA) Antibody, IgG** 0050085
*Method:* Semi-Quantitative Multiplex Bead Assay

**Chromatin Antibody, IgG** 2005287
*Method:* Semi-Quantitative Enzyme-Linked Immunosorbent Assay

**Smith/RNP (ENA) Antibody, IgG** 0050470
*Method:* Semi-Quantitative Multiplex Bead Assay

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Content Review January 2020 | Last Update February 2020
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