Supplementary Material

# Supplementary Table 1

**Supplementary Table 1.** ANA titers across SLE patients.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Patterns** | **Total, n (%)** | **Titers** | | | | |
|  |  | **1:80** | **1:160** | **1:320** | **1:640** | **1:1280** |
| **Speckled** | 878 (49.52) | 110 | 166 | 292 | 199 | 111 |
| **Homogeneous** | 489 (27.58) | 46 | 88 | 148 | 126 | 81 |
| **Nucleolar** | 17 (0.96) | 1 | 8 | 7 | 1 | 0 |
| **Cytoplasmic** | 27 (1.52) | 10 | 11 | 4 | 2 | 0 |
| **Homogeneous-Speckled** | 270 (15.23) | 32 | 45 | 124 | 50 | 19 |
| **Speckled-Nucleolar** | 15 (0.85) | 5 | 8 | 2 | 0 | 0 |
| **Homogeneous-Nucleolar** | 14 (0.79) | 5 | 8 | 1 | 0 | 0 |
| **Other rare patterns\*** | 3 (0.17) | 2 | 0 | 1 | 0 | 0 |
| **Negative** | 60 (3.38) | / | / | / | / | / |

*\* Other rare patterns include nuclear membrane, ring (rod) shape, and myosin (myofibrillar).*

# Supplementary Table 2

**Supplementary Table 2.** Statistical comparisons of sensitivity, specificity and accuracy between different methods using McNemar's test.

|  |  |  |  |
| --- | --- | --- | --- |
| **Comparison** | **Sensitivity p-value** | **Specificity p-value** | **Accuracy p-value** |
| IIF vs DLCM | <0.001\* | <0.001\* | <0.001\* |
| IIF vs CLIA | 0.016\* | <0.001\* | 0.016\* |
| DLCM vs CLIA | 0.032\* | 0.729 | 0.032\* |
| IIF+DLCM vs IIF | <0.001\* | <0.001\* | <0.001\* |
| IIF+DLCM vs DLCM | <0.001\* | <0.001\* | <0.001\* |
| IIF+DLCM vs CLIA | <0.001\* | 0.227 | <0.001\* |
| IIF+CLIA vs IIF | <0.001\* | <0.001\* | <0.001\* |
| IIF+CLIA vs DLCM | <0.001\* | 0.047 | <0.001\* |
| IIF+CLIA vs CLIA | <0.001\* | <0.001\* | <0.001\* |
| IIF+CLIA vs IIF+DLCM | 0.092 | 0.628 | 0.092 |
| IIF+DLCM+CLIA vs IIF | <0.001\* | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs DLCM | <0.001\* | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs CLIA | <0.001\* | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs IIF+DLCM | <0.001\* | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs IIF+CLIA | <0.001\* | <0.001\* | <0.001\* |

*\* Denotes that the comparison is statistically significant.*

*Abbreviations: IIF, indirect immunofluorescence; CLIA, chemiluminescence immunoassay; DLCM, digital liquid chip method.*

# Supplementary Table 3

**Supplementary Table 3.** Statistical comparisons of sensitivity, specificity and accuracy between different methods in SLE patients with renal involvement using McNemar's test.

|  |  |  |
| --- | --- | --- |
| **Comparison** | **Sensitivity p-value** | **Specificity p-value** |
| IIF vs DLCM | 0.433 | <0.001\* |
| IIF vs CLIA | 0.239 | 0.022\* |
| DLCM vs CLIA | 0.617 | 0.083 |
| IIF+DLCM vs IIF | 0.001\* | <0.001\* |
| IIF+DLCM vs DLCM | <0.001\* | 0.002\* |
| IIF+DLCM vs CLIA | <0.001\* | 0.001\* |
| IIF+CLIA vs IIF | 0.002\* | <0.001\* |
| IIF+CLIA vs DLCM | 0.002\* | 0.262 |
| IIF+CLIA vs CLIA | <0.001\* | <0.001\* |
| IIF+CLIA vs IIF+DLCM | 0.655 | 0.577 |
| IIF+DLCM+CLIA vs IIF | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs DLCM | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs CLIA | <0.001\* | <0.001\* |
| IIF+DLCM+CLIA vs IIF+DLCM | 0.157 | <0.001\* |
| IIF+DLCM+CLIA vs IIF+CLIA | 0.083 | <0.001\* |

*\* Denotes that the comparison is statistically significant.*

*Abbreviations: IIF, indirect immunofluorescence; CLIA, chemiluminescence immunoassay; DLCM, digital liquid chip method.*