

中文題目: 修格連氏症病人週邊血液 anti-Ro52 與 anti-Ro 60 抗體之表現

英文題目: The expression of circulating anti-Ro 52 and anti-Ro 60 antibodies in the patients with Sjögren's syndrome

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Background: Circulating anti-Ro/SSA antibodies are usually found in the patients with Sjögren's syndrome (SS). The antigenic components of Ro protein include 60kD and 52kD-Ro protein. We evaluated the levels of both anti-Ro 60 and anti-Ro 52 antibodies in the patients with primary and secondary SS.

Methods: We collected sera from 132 patients with autoimmune diseases including rheumatoid arthritis (RA), primary SS and systemic lupus erythematosus (SLE). Anti-Ro 52 and anti-Ro 60 antibodies were measured by ELISA kit in these patients.

Results: Elevation of autoantibodies including rheumatoid factor, ANA and anti-cardiolipin antibodies were found in the all patients and there was no significant difference. Higher expression of circulating anti-Ro 52 (15.25 ± 34.16) and anti-Ro 60 (41.99 ± 85.48) antibodies were observed when compared RA (anti-Ro 52: 0.54 ± 0.99 , anti-Ro 60: 3.33 ± 13.98) and SLE (anti-Ro 52: 9.83 ± 31.41 , anti-Ro 60: 7.95 ± 23.43) patients (anti-Ro 52: $P=0.05$, Ro 60: $P=0.013$). There was a significant positive correlation between anti-Ro 52 and anti-Ro/SSA antibody ($r = 0.617$, $P < 0.001$), and anti-La/SSB antibody ($r = 0.314$, $P = 0.026$). However, there was more significant positive correlation between anti-Ro 60 and anti-Ro/SSA antibody ($r = 0.501$, $P < 0.001$), and anti-La/SSB antibody ($r = 0.503$, $P < 0.001$).

Conclusion: Elevation of anti-Ro 52 or anti-Ro 60 antibodies was specific among the patients with SS. Circulating anti-Ro 60 antibodies had more specific and more significant positive correlation with anti-Ro/SSA and anti-La/SSB antibodies. Therefore, adequate evaluation of anti-Ro 60 antibodies might be a better biomarker in the patients with SS.