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Anti-idiotypic antibodies directed against anti-HBs among the patients with chronic hepatitis B

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Abstract

Anti-idiotypic antibodies (anti-Id) against anti-HBs were found in the sera of patients with chronic hepatitis type B. Anti-idiotypic antibodies were detected by an enzyme-linked immunosorbent assay using horseradish peroxidase conjugated mouse monoclonal anti-HBs. Ten of 72 HBsAg positive sera contained anti-Id (13.9%). The prevalence of anti-Id did not appear to correlate with HBeAg/anti-HBe system. However, HB virus specific DNA polymerase activity was significantly higher in anti-Id positive sera. In the sera obtained from the patients treated with predonisolone before, anti-Id positive rate was higher than that in the patients without a history of predonisolone therapy. These results suggest that anti-Id may be related to the immunoregulatory mechanism of HB virus replication.

References

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