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Summary

EFFECT OF ANTIBIOTIC TREATMENT ON THE FORMATION OF ANTIBODIES AGAINST ANTI-TNFA IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE: A CASE – CONTROL STUDY

Jordi Guardiola

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A retrospective case-control study of 100 IBD patients found that antibiotic use in the first 6 months after starting anti-TNFα therapy was independently associated with increased risk of developing anti-drug antibodies.

KEY POINTS

- In multivariate analysis adjusting for immunosuppressants, tobacco, obesity, and number of biologicals, antibiotic use in the first 6 months after anti-TNFα initiation was associated with development of anti-drug antibodies (OR 3.95, p<0.01).
- Antibiotics during the 6 months after starting biological treatment were used by 76.7% of patients who developed anti-drug antibodies versus 38.6% of controls (p<0.0001).
- Quinolones (33% vs. 11%; p=0.009) and penicillins (17% vs 4%, p=0.03) showed the greatest association with anti-drug antibody development.
- The study included 30 cases matched with 70 controls by IBD type, mono/combination therapy, previous biological treatment, and type of anti-TNFα, with data from June 2005 to January 2023.

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