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Summary

ASSOCIATION OF GENES OF THE HLA SYSTEM IN PATIENTS WITH IDIOPATHIC ACHALASIA IN RUSSIA

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A study of 140 patients with idiopathic achalasia identified multiple HLA allelic variants using next-generation sequencing, with HLA-DPA1*01:03 present in 84.6% of patients.

KEY POINTS

- The most frequent allelic variant was HLA-DPA1*01:03, detected in 84.6% of patients with achalasia.
- Multiple HLA class I and class II allelic variants were identified across 11 genes, including HLA-DRB4*01:03 in 32.9%, HLA-DRB3 variants in 21.4-22.5%, and HLA-DQB1*03:01 and HLA-DQB1*03:358 each in 19.2% of patients.
- All 140 patients underwent comprehensive HLA typing by massively parallel sequencing covering HLA-A, -B, -C, -DQB1, -DRB1, -DRB3, -DRB4, -DRB5, -DQA1, -DPA1, and -DPB1 genes.
- The authors conclude that these HLA allelic variants may have prognostic value and that further study in larger cohorts is needed to confirm associations with achalasia.

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