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MTHFR C677T and A1298C polymorphisms may contribute to the risk of Parkinson's Disease: a meta-analysis of 19 studies

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Highlights

- 1. We conducted a meta-analysis to assess the association between MTHFR C677T/A1298C polymorphisms and PD.
- 2. The TT/CT genotype carriers had a higher risk of PD than the CC wild-type homozygote carriers in Caucasians.
- 3. MTHFR A1298C polymorphism was associated with PD risk in dominant and heterozygous models.

ABSTRACT

The 5,10-methylenetetrahydrofolate reductase (MTHFR) gene has been reported to be a candidate gene for susceptibility to Parkinson's disease (PD), but results of different studies are conflicting. Here, we conducted a meta-analysis of published case-control studies to evaluate the association between MTHFR C677T and A1298C gene polymorphisms with the risk of PD. Electronic search through PubMed, EmBase, ScienceDirect and Cochrane Library was conducted to identify all relevant studies. A total of 19 studies with 2746 cases and 8967 controls were

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