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Association between HLA alleles and lamotrigine-induced cutaneous adverse drug reactions
in Asian populations: A meta-analysis

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Highlights

- 1.HLA-B*1502 is a risk factor for LTG-induced bullous lesions like SJS/TEN
- 2.HLA-A*2402 is associated with the susceptibility to either SJS/TEN or MPE
- 3.HLA-A*3303 is a protective allele against LTG induced MPE

Purpose. The aim of this study was to assess the association between human leukocyte antigen (HLA) variants and LTG-induced cutaneous adverse drug reactions (cADRs).

Methods. A comprehensive literature search was conducted on the relationship of HLA alleles with LTG-induced cADRs in Asian populations, through PubMed, Embase, and Cochrane Library. The last search was in February 2018. The pooled odds ratio (OR) with 95% confidence interval (95% CI) was used to assess the strength of the association between an HLA allele and LTG-induced cADRs.

Results. A total of 11 studies met the inclusion criteria and were enrolled in our meta-analysis, which were based on Chinese, Korean, and Thai populations. Among these populations, we observed that HLA-B*1502 is a risk allele for LTG-induced SJS/TEN in Chinese populations (pooled OR 2.4, 95% CI: 1.20–4.78, $P = 0.01$), HLA-A*2402 was found to be a significant risk allele for both SJS/TEN (pooled OR 3.50, 95% CI: 1.61–7.59, $P = 0.002$) and MPE (pooled OR 2.14, 95% CI: 1.10–4.16, $P = 0.03$), and HLA-B*3303 was considered to be a

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