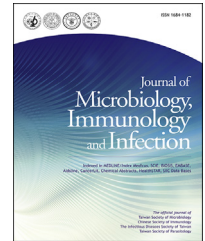




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ORIGINAL ARTICLE

# Myeloperoxidase genetic polymorphisms and susceptibility to Kawasaki disease in Taiwanese children



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## KEYWORDS

Kawasaki disease;  
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**Abstract** *Background/purpose:* The aim of this study was to investigate the myeloperoxidase (MPO) -463G>A polymorphism in Kawasaki disease (KD) patients, and the relationship between gene polymorphism and MPO levels.

*Methods:* A total of 334 KD children and 492 sex-matched controls were assayed for polymorphism analysis. TaqMan assays were used for genotyping. MPO was measured in 37 KD patients and 42 febrile controls.

*Results:* A significant linear trend of KD risk was found to be related to the G/G genotype ( $p_{\text{linear trend}} = 0.032$ ). The combined genotypes (G/A and A/A) of MPO -463G>A were associated with a significantly decreased KD risk compared to the G/G genotype [adjusted odds ratios (AOR) = 0.71, 95% confidence interval (CI): 0.52–0.99,  $p = 0.040$ ]. In addition, KD patients with

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