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Haplotype of platelet receptor *P2RY12* gene is associated with residual clopidogrel on-treatment platelet reactivity

Key words: P2RY12, CYP2C19, Haplotype, Single nucleotide polymorphism (SNP), Clopidogrel, Thrombelastography

Research Summary

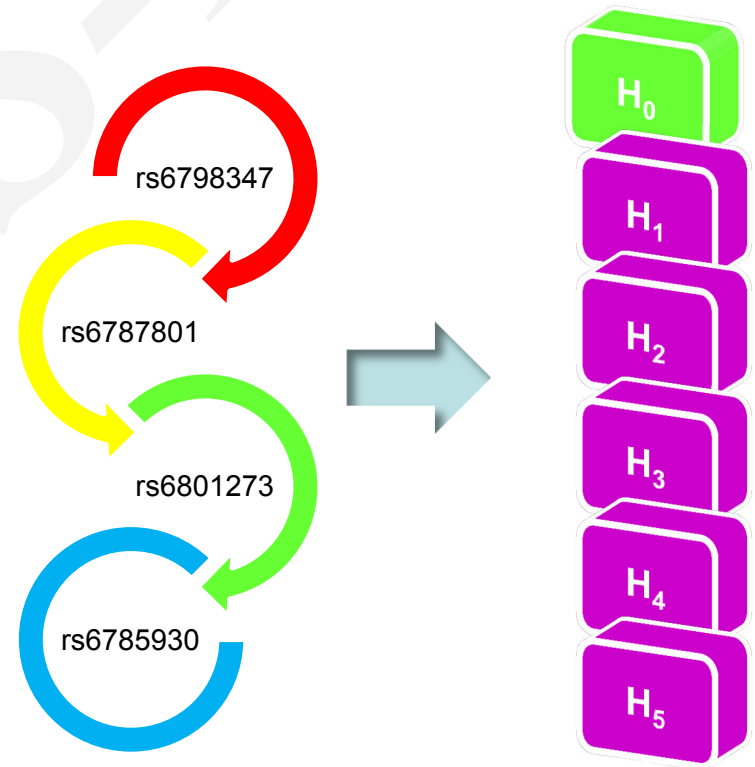
This research investigated a possible association between common variations of the P2RY12 and the residual clopidogrel on-treatment platelet reactivity after adjusting for the influence of CYP2C19.

- SNPs studied:

- **P2RY12 :**

- ✓ rs6798347
- ✓ rs6787801
- ✓ rs6801273
- ✓ rs6785930
- ✓ rs2046934

- **CYP2C19: *2,*3,*17**



Research Summary

- **Main points:**

- Combination of *P2RY12* variations instead of rs2046934 significantly related to Clopidogrel on-treatment platelet reactivity after adjusting for CYP2C19 effects

- H_1 (vs H_0) ↓ HTPR

- *Subgroups defined by Smoking enhanced the significance*

- *in non-smoker subgroup:*

- H_1 (vs H_0) ↓ HTPR

- H_2 (vs H_0) ↓ HTPR

