

Polimorfisme gen Tmprss6 sebagai faktor resiko rendahnya hemoglobin dan status besi pada anak Suku Sasak usia dibawah 2 tahun
= Polymorphism of Tmprss6 gene as risk factor of low hemoglobin and iron status among under 2 years old Sasaknese children

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Abstrak

Varian gen Tmprss6 berasosiasi dengan status besi diplasma, tetapi efek tersebut belum dijelaskan pada anak Indonesia. Penelitian ini bertujuan menganalisis apakah SNP rs855791 (G>A) dan rs4820268 (A>G) gen Tmprss6 berhubungan dengan status besi dan hemoglobin yang rendah dengan mengontrol asupan zat besi pada anak baduta suku Sasak. Studi crossectional ini mengeksplorasi baseline data dari randomized trial di Kabupaten Lombok Timur, sebanyak 121 subyek memenuhi syarat dalam penelitian ini. Real Time PCR, metode Taqman Assay digunakan untuk menganalisis genotip. Hasil Penelitian menunjukkan bahwa varian Tmprss6 secara signifikan berhubungan dengan feritin, tetapi asupan zat besi lebih berkontribusi terhadap feritin dibandingkan genotipe.

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Variants in Tmprss6 were associated with plasma iron, but their effects in Indonesian children remain elucidated. This study aim to analyze whether the Tmprss6 SNPs rs855791 (G>A) and rs4820268 (A>G) were associated with low iron status and hemoglobin controlling for iron intake among Sasaknese. A crossectional study explored the baseline of a randomized trial in East Lombok district, 121 subjects were eligible in the study. Real Time PCR using Taqman-assay method was used for analysis of SNPs genotype. The researcher suggests that Tmprss6 variants were significantly associated with plasma ferritin, but iron intake still more contribute to ferritin than genotype.