

**POLIMORFISME PROMOTER GEN NITRIC OXIDE SYNTHASE 3
GUANIN-922A
PADA PREEKLAMPSIA BERAT DENGAN
KEHAMILAN NORMAL**



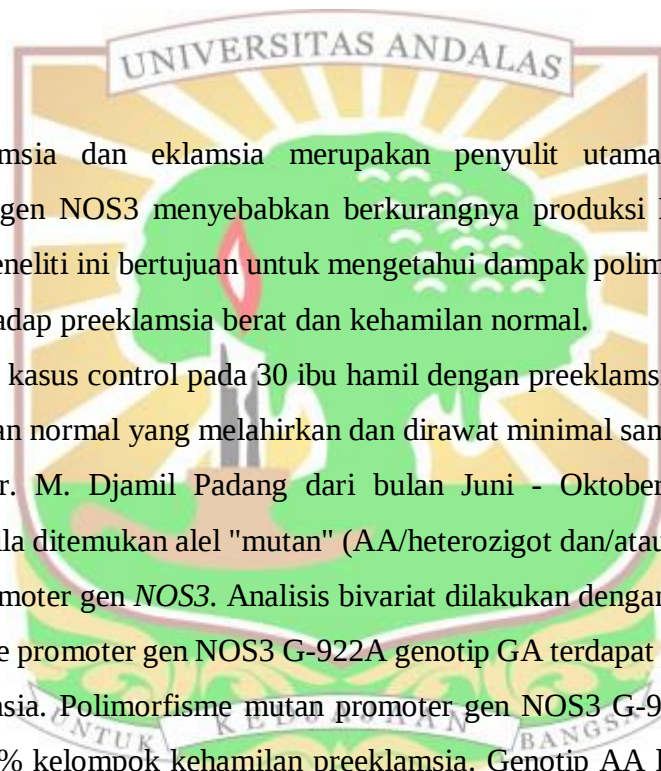
**PROGRAM PENDIDIKAN DOKTER SPESIALIS OBSTETRI DAN
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ABSTRAK

POLIMORFISME PROMOTER GEN NITRIC OXIDE SYNTHASE 3 GUANIN-922A PADA PREEKLAMPSIA BERAT DENGAN KEHAMILAN NORMAL

¹Karina Surakusuma, ²Defrin, ³Hudila Rifa Karmia

¹Bagian Obstetri dan Ginekologi, Fakultas Kedokteran Universitas Andalas/ RSUP Dr. M.Djamil, Padang
^{2,3}Subbagian Fetomaternal, Bagian Obstetri dan Ginekologi, Fakultas Kedokteran Universitas Andalas/ RSUP Dr. M.Djamil, Padang



Tujuan : Preeklamsia dan eklamsia merupakan penyulit utama kehamilan. Diduga polimorfisme SNP gen NOS3 menyebabkan berkurangnya produksi NO sehingga tekanan darah meningkat. Peneliti ini bertujuan untuk mengetahui dampak polimorfisme promoter gen NOS3 G-922A terhadap preeklamsia berat dan kehamilan normal.

Metode : Penelitian kasus control pada 30 ibu hamil dengan preeklamsi berat/eklamsi dan 30 ibu dengan kehamilan normal yang melahirkan dan dirawat minimal sampai 24 jam pascasalin di Rumah Sakit Dr. M. Djamil Padang dari bulan Juni - Oktober 2022. Polimorfisme dinyatakan positif bila ditemukan alel "mutan" (AA/heterozigot dan/atau GA/homozigot) pada posisi 922 regio promoter gen NOS3. Analisis bivariat dilakukan dengan uji Chi-square.

Hasil : Polimorfisme promoter gen NOS3 G-922A genotip GA terdapat pada 76,7% kelompok kehamilan preeklamsia. Polimorfisme mutan promoter gen NOS3 G-922A genotip GA+AA terdapat pada 100,0% kelompok kehamilan preeklamsia. Genotip AA lebih banyak dijumpai dibanding Genotip GA (64,1% vs 35,6%). Tidak terdapat hasil yang signifikan antara paritas, awitan, usia, dan sebaran polimorfisme promoter gen NOS3 G-922A pada kedua kelompok.

Kesimpulan : Terdapat polimorfisme promoter gen NOS3 G-922A pada kasus preeklamsi berat dan kehamilan normal namun tidak bermakna secara statistik. Peran polimorfisme promoter gen NOS3 G- 922A pada preeklamsi belum dapat diketahui secara pasti.

Kata kunci : Polimorfisme promoter gen NOS3 G-922A, preeklamsia, eklamsia

ABSTRACT

NOS3 GENE PROMOTER POLYMORPHISM G-922A AMONG SEVERE PREECLAMPSIA AND NORMAL PREGNANCY

¹Karina Surakusuma, ²Defrin, ³Hudila Rifa Karmia

¹Department of Obstetrics and Gynecology, Faculty of Medicine, Andalas University/ Dr. M. Djamil, Padang

^{2,3}Subdivision of Fetomaternal, Department of Obstetrics and Gynecology, Faculty of Medicine, Andalas University/ Dr. M. Djamil Hospital

Objectives : Preeclampsia and eclampsia are the main complications of pregnancy. It is suspected that the SNP polymorphism of the NOS3 gene causes reduced NO production so that blood pressure increases. This researcher aims to determine the impact of the NOS3 G-922A gene promoter polymorphism on severe preeclampsia and normal pregnancy.

Methods : Case control study on 30 pregnant women with severe preeclampsia/eclampsia and 30 mothers with normal pregnancies who gave birth and were treated for at least 24 hours postpartum at Dr. M. Djamil Padang from June - October 2022. Polymorphism is declared positive if a "mutant" allele (AA/heterozygous and/or GA/homozygous) is found at position 922 of the NOS3 gene promoter region. Bivariate analysis was carried out using the Chi-square test.

Results : The GA genotype NOS3 gene promoter polymorphism G-922A was found in 76.7% of the preeclampsia pregnancy group. The mutant polymorphism of the NOS3 gene promoter G-922A with GA+AA genotype was found in 100.0% of the preeclampsia pregnancy group. The AA genotype is more common than the GA genotype (64.1% vs 35.6%). There were no significant results between parity, onset, age, and distribution of the NOS3 G-922A gene promoter polymorphism in both groups.

Conclusions : There is a NOS3 G-922A gene promoter polymorphism in cases of severe preeclampsia and normal pregnancy but it is not statistically significant. The role of the NOS3 G-922A gene promoter polymorphism in preeclampsia is not yet known with certainty.

Keywords: NOS3 G-922A gene promoter polymorphism, preeclampsia, eclampsia