

Deteksi polimorfisme genetik SDF-1 G801A pada penderita kanker kepala leher dan individu sehat populasi Indonesia = Detection of SDF-1 G801A genetic polymorphism in head and neck cancer patients and healthy subjects of Indonesian population

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20444356&lokasi=lokal>

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Abstrak

Latar Belakang: Stromal Cell-Derived Factor-1 SDF-1 mengkode protein SDF-1 yang berperan dalam angiogenesis dan metastasis sel kanker. Polimorfisme genetik SDF-1 G801A telah dilaporkan memiliki hubungan dengan kanker kepala leher KKL.

Tujuan: Mendeteksi polimorfisme genetik SDF-1 G801A pada penderita KKL dan individu sehat populasi Indonesia.

Metode: Sampel DNA tersimpan dari 50 penderita KKL dan 50 individu sehat dianalisis dengan metode PCR-RFLP dengan menggunakan enzim restriksi HpaII serta divisualisasi dengan elektroforesis.

Hasil: Polimorfisme genetik SDF-1 G801A terdeteksi sebesar 54 pada kelompok penderita KKL dan 74 pada kelompok individu sehat.

Simpulan: Polimorfisme genetik SDF-1 G801A terdeteksi pada penderita KKL dan individu sehat populasi Indonesia.

*Introduction: Stromal Cell Derived Factor 1 SDF 1 gene encodes SDF 1 protein which plays roles in angiogenesis and metastasis of cancer cell. SDF 1 G801A genetic polymorphism has been reported to have an association with head and neck cancer HNC.*

*Aims: To detect SDF 1 G801A genetic polymorphism in HNC patients and healthy subjects of Indonesian population.*

*Methods: Stored DNA samples extracted from blood of 50 HNC patients and 50 healthy subjects were analyzed with PCR RFLP method using HpaII restriction enzyme and visualized by electrophoresis.*

*Results: There were 54 and 74 SDF 1 G801A genetic polymorphisms detected in HNC samples and healthy subject samples.*

*Conclusion: SDF 1 G801A genetic polymorphism was detected in HNC patients and healthy subject of Indonesian population.*