

## Distribusi pola polimorfisme gen leptin reseptor Q223R pada pasien dengan dan tanpa osteoporosis = Mapping distribution of polymorphism leptin receptor Q223R gene in patient with and without osteoporosis

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### Abstrak

Osteoporosis dapat disebabkan oleh faktor genetik, salah satunya yaitu gen LEPR. Penelitian ini bertujuan menganalisis polimorfisme gen leptin reseptor (LEPR) Q223R pada pasien dengan dan tanpa osteoporosis. Sampel dibagi dua kelompok yaitu pasien dengan osteoporosis dan tanpa osteoporosis. Polimorfisme genotip di analisis menggunakan Polymerase Chain Reaction (PCR) - Restriction Fragment Length Polymorphisms (RFLP). Distribusi pola genotip AA dan alel A LEPR Q223R menunjukkan peningkatan risiko osteoporosis. Analisis statistik dengan uji fisher exact antara pasien dengan osteoporosis dan tanpa osteoporosis menunjukkan perbedaan bermakna pada genotip ( $p=0.044$ ) dan alel ( $p<0.05$ ). Distribusi pola polimorfisme gen LEPR Q223R berisiko meningkat pada pasien dengan osteoporosis.

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Osteoporosis caused by genetic factor, one of which is LEPR gene. This study analyzed polymorphism leptin receptor (LEPR) Q223R in patient with and without osteoporosis. Samples were divided into two group, with osteoporosis and without osteoporosis. The polymorphism were genotyped using Polymerase Chain Reaction (PCR) ? Restriction Fragment Length Polymorphisms (RFLP) analysis. Mapping distribution of AA genotype and A Allele for LEPR Q223R presented an increased risk of osteoporosis. Statistic analysis of fisher exact test between patient with and without osteoporosis showed significant differences of genotype ( $p=0,044$ ) and allele ( $p<0,05$ ). Mapping distribution of polymorphism LEPR Q223R an increased risk of osteoporosis.