

**HUBUNGAN VARIASI GENETIK MMP14+7096 DENGAN SKOR
FIBROSIS – 4 (FIB – 4) PADA PASIEN KARSINOMA HEPATOSELULER
DI RSUD PROF. DR. MARGONO SOEKARJO PURWOKERTO**

ABSTRAK

Latar Belakang: Perkembangan Karsinoma hepatoseluler (KHS) dapat dilihat melalui derajat fibrosis hati. Skor fibrosis-4 (FIB-4) merupakan metode pemeriksaan non-invasif yang digunakan untuk menilai derajat fibrosis. Gen MMP14 memiliki kontribusi dalam memprediksi perkembangan penyakit KHS, namun hubungan skor FIB-4 dengan variasi dari gen MMP14 +7096 belum pernah dibahas.

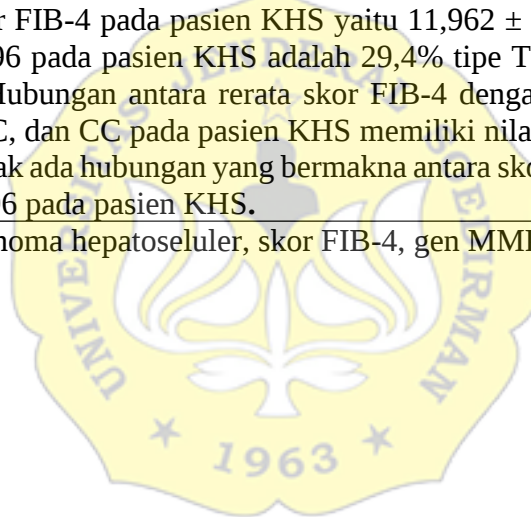
Tujuan: Untuk mengetahui hubungan tipe variasi gen MMP14 + 7096 dengan skor FIB-4 pada pasien KHS.

Metode: Penelitian analitik observasional dengan pendekatan *cross sectional*. Data berupa sampel darah dan data hasil penelitian terdahulu dari 17 pasien terdiagnosis KHS di RSUD Prof. Dr. Margono Soekarjo Purwokerto. Pengambilan data sampel dilakukan dengan teknik *total sampling* dengan mengambil data profil darah, ekstraksi DNA, PCR-RFLP, dan dilakukan analisis hipotesis uji *one way anova*.

Hasil: Rerata skor FIB-4 pada pasien KHS yaitu $11,962 \pm 15,2$. Distribusi variasi gen MMP14 +7096 pada pasien KHS adalah 29,4% tipe TT, 52,9% tipe TC, dan 17,6% tipe CC. Hubungan antara rerata skor FIB-4 dengan variasi gen MMP14 +7096 tipe TT, TC, dan CC pada pasien KHS memiliki nilai $p=0,539$.

Kesimpulan: Tidak ada hubungan yang bermakna antara skor FIB-4 dengan variasi gen MMP14 +7096 pada pasien KHS.

Kata Kunci: karsinoma hepatoseluler, skor FIB-4, gen MMP14 +7096.



**RELATIONSHIP BETWEEN MMP14+7096 GENETIC VARIATIONS WITH
FIBROSIS – 4 (FIB – 4) SCORE IN HEPATOCELLULAR CARCINOMA**

ABSTRACT

Background: Hepatocellular carcinoma (HCC) growth can be monitored by liver fibrosis level. MMP14 has a role to predict HCC prognosis, but the relationship between FIB-4 score and MMP14 +7096 variations was unclear.

Aim: To determine the relationship of MMP14 +7096 genetic variations with FIB-4 score in HCC.

Methods: Analytic observational study with cross sectional model used by blood sample and study data referenced from 17 HCC patients in Prof. Dr. Margono Soekarjo General Hospital. Data collection was performed by total sampling of blood profile, extracted DNA, PCR-RFLP, and analysed by one way anova test.

Results: The mean of FIB-4 score in HCC patients was $11,962 \pm 15,2$. The distribution of MMP14 +7096 genetic variations in HCC patients was 29,4% of TT type, 52,9% of TC type, and 17,6% of CC type. The relationship between FIB-4 mean score with TT, TC, and CC type of MMP14 +7096 genetic variations in HCC showed as $p=0,539$.

Conclusions: There was irrelevant relationship between MMP14 +7096 genetic variations with FIB-4 score in HCC.

Keywords: FIB-4 score, hepatocellular carcinoma, MMP14 +7096.

