

**GAMBARAN NILAI *PROTHROMBIN TIME*, ALBUMIN DAN BILIRUBIN
BERDASARKAN STADIUM KLINIS PADA PENDERITA SIROSIS
HEPATIS DI RSUP. DR.M.DJAMIL PADANG**



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ABSTRACT

THE VALUE OF PROTHROMBIN TIME, ALBUMIN AND BILIRUBIN BASED ON CLINICAL STAGE OF HEPATIC CIRRHOSIS PATIENTS IN RSUP. DR. M.DJAMIL PADANG

By

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Hepatic cirrhosis is a chronic liver disease characterized by decreased of liver function. Laboratory test can be used to detect the decreased of liver function especially prothrombin time, albumin and bilirubin. The purpose of this study is to described the value of prothrombin time, albumin and bilirubin on clinical stage based on Baveno IV consensus.

This research was a descriptive study by taken secondary data from medical records of hepatic cirrhosis patients in RSUP. Dr. M.Djamil Padang from July to December in 2018. Sampling through total sampling techniques and obtained 63 samples that met the inclusion and exclusion criteria. Data was displayed in the form of distribution frequency tables, mean and median.

The results of this study showed that most patient were male (46%) in the age range of 51-60 years (36,5%). Based on Child-Pugh score and clinical staging found that class C and stage 5 decompensated hepatic cirrhosis was the most severity stage. The median of *prothrombin time* in all subject was 16,6 seconds, the mean of albumin $2,42 \pm 0,67$ and the median of bilirubin 3,7 mg/dL. The median prothrombin time based on clinical stage from stage 1 to stage 5 obtained 11.95 seconds, 13.20 seconds, 14.10 seconds, 17.80 seconds and 17.90 seconds. Albumin levels based on clinical stage from stage 1 to stage 5 were 4.35 g / dL, 3.08 g / dL, 2.72 g / dL, 2,20 g / dL, and 2.13 g / dL. Bilirubin levels based on clinical stage from stage 1 to stage 5 were 0.45 mg / dL, 0.60 mg / dL, 1.80 mg / dL, 3.70 mg / dL, and 5.00 mg / dL

The conclusion of this study is the value of prothrombin time and bilirubin increases in the more severe clinical stage of hepatic cirrhosis while albumin decreases in the more severe clinical stage of hepatic cirrhosis.

Keyword : Hepatic cirrhosis, prothrombin time, albumin, bilirubin

ABSTRAK

GAMBARAN NILAI *PROTHROMBIN TIME*, ALBUMIN DAN BILIRUBIN BERDASARKAN STADIUM KLINIS PADA PENDERITA SIROSIS HEPATIS DI RSUP DR. M.DJAMIL PADANG

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Sirosis hepatitis merupakan penyakit hati kronik yang ditandai dengan penurunan fungsi hati. Pemeriksaan laboratorium dapat menggambarkan penurunan fungsi hati terutama *prothrombin time*, albumin dan bilirubin. Tujuan penelitian ini adalah menggambarkan nilai *prothrombin time*, albumin dan bilirubin terhadap stadium klinis berdasarkan konsensus Baveno IV.

Penelitian ini merupakan penelitian deskriptif dengan mengambil data sekunder dari rekam medik penderita sirosis hepatitis di RSUP. Dr. M.Djamil Padang periode Juli hingga Desember tahun 2018. Pengambilan sampel melalui teknik *total sampling* dan mendapatkan 63 sampel yang memenuhi kriteria inklusi dan eksklusi. Data ditampilkan dalam bentuk tabel distribusi frekuensi, mean dan median.

Hasil penelitian didapatkan penderita sirosis hepatitis terbanyak adalah pada jenis kelamin laki laki (46%) dengan rentang usia 51-60 tahun (36,5%) serta berdasarkan skor Child-Pugh dan stadium klinis, tingkat keparahan yang paling banyak ditemui adalah sirosis hepatitis kelas C (60,3%) dan stadium 5 dekompensata (46%). Median *prothrombin time* pada keseluruhan subjek didapatkan 16,6 detik, rerata albumin $2,42 \pm 0,67$ g/dL dan median bilirubin 3,7 mg/dL. Median *prothrombin time* berdasarkan stadium klinis dari stadium 1 hingga stadium 5 didapatkan 11,95 detik, 13,20 detik, 14,10 detik, 17,80 detik dan 17,90 detik. Rerata kadar albumin berdasarkan stadium klinis dari stadium 1 hingga stadium 5 didapatkan 4,35 g/dL, 3,08 g/dL, 2,72 g/dL, 2,20 g/dL, dan 2,13 g/dL. Median kadar Bilirubin berdasarkan stadium klinis dari stadium 1 hingga stadium 5 didapatkan 0,45 mg/dL, 0,60 mg/dL, 1,80 mg/dL, 3,70 mg/dL, dan 5,00 mg/dL.

Simpulan penelitian ini adalah *prothrombin time* dan kadar bilirubin meningkat pada stadium klinis sirosis hepatitis yang semakin berat sedangkan kadar albumin menurun pada stadium klinis sirosis hepatitis yang semakin berat.

Kata Kunci : Sirosis Hepatis, *Prothrombin Time*, Albumin, Bilirubin