



INTISARI

Latar Belakang: Kanker ovarium merupakan keganasan ginekologi yang sering terjadi dan terus meningkat seiring bertambahnya usia. Pada kanker ovarium sering terjadi perubahan beberapa parameter laboratorium seperti penurunan kadar albumin dan peningkatan CA-125. Kanker ovarium stadium lanjut sering didapatkan peningkatan CA-125 dan diduga karena dampak rendahnya kadar albumin dan juga adanya kondisi asites, namun hal ini belum diketahui seberapa kuat korelasinya.

Tujuan: Untuk mengevaluasi hubungan antara kadar albumin dengan CA-125 pada pasien kanker ovarium di RSUP Dr. Sardjito

Metode: Penelitian potong lintang dengan data sekunder ini menginklusi pasien kanker ovarium yang terdiagnosis pertama kali secara histopatologis di RSUP Dr. Sardjito tahun 2019-2020, usia >18 tahun dan memiliki hasil kadar albumin, sedangkan pasien yang mendapatkan pengobatan, kemoterapi, disertai keganasan lainnya, dan gangguan hepar di eksklusi. Korelasi antara kadar albumin dengan CA-125 yang tidak terdistribusi normal di uji dengan *Spearman* dengan batas kemaknaan $p < 0,05$.

Hasil: Didapatkan 78 pasien kanker ovarium tipe epitelial yang berbeda bermakna dengan perbedaan proporsi kadar albumin menurut stadium, tahap progresivitas, asites dan CA-125. Korelasi kadar albumin dengan CA-125 seluruh kanker ovarium didapatkan $r = -0,487$ ($p < 0,001$), menurut stadium didapatkan $r = -0,298$ ($p = 0,123$) pada stadium I, $r = -0,491$ ($p = 0,150$) pada stadium II, $r = -0,477$ ($p = 0,012$) stadium III dan stadium IV $r = -0,573$ ($p = 0,013$). Korelasi stadium awal $r = -0,352$ ($p = 0,030$), stadium lanjut $r = -0,577$ ($p < 0,001$), tipe *serous* $r = -0,567$ ($p = 0,001$), *non-serous* $r = -0,402$ ($p = 0,006$), dengan klinis asites $r = -0,394$ ($p = 0,003$), tanpa asites $r = -0,382$ ($p = 0,037$).

Simpulan: Didapatkan korelasi negatif sedang yang bermakna antara kadar albumin dengan CA-125 pada seluruh kanker ovarium, stadium III dan IV, tahap progresivitas, tipe histopatologis serta asites.

Kata Kunci: kanker ovarium, albumin, CA-125, asites



ABSTRACT

Background: Ovarian cancer is a common gynecological malignancy that continues to increase with age. In ovarian cancer, changes in several laboratory parameters often occur, such as a decrease in albumin levels and an increase in CA-125. Advanced ovarian cancer is often associated with an increase in CA-125, which is thought to be due to the effect of low albumin levels and the presence of ascites, but the strength of this correlation is not yet known.

Objective: To evaluate correlation between albumin and CA-125 in ovarian cancer patients at Dr. Sardjito Hospital.

Methods: A cross-sectional study using secondary data included ovarian cancer patients who were first diagnosed histopathologically at Dr. Sardjito General Hospital in 2019-2020, aged >18 years and had albumin level results, while patients who received treatment, chemotherapy, accompanied by other malignancies, and liver disorders were excluded. The correlation between albumin levels and non-normally distributed CA-125 was tested using Spearman's correlation with a significance level of $p < 0.05$.

Result: A total of 78 epithelial type ovarian cancers that differed significantly with differences in the proportion of albumin levels in stage, stage of progression, ascites and CA-125. Correlation of albumin levels with CA-125 throughout ovarian cancer with $r = -0.487$ ($p < 0.001$), correlation of stage I $r = -0.298$ ($p = 0.123$), stage II and $r = -0.491$ ($p = 0.150$), stage III $r = -0.477$ ($p = 0.012$) and stage IV $r = -0.573$ ($p = 0.013$). Correlation of early stage $r = -0.352$ ($p = 0.030$), advanced stage $r = -0.577$ ($p < 0.001$), serous type $r = -0.567$ ($p = 0.001$), non-serous $r = -0.402$ ($p = 0.006$), with ascites $r = -0.394$ ($p = 0.003$), non ascites $r = -0.382$ ($p = 0.037$).

Conclusion: There was a significant moderate negative correlation between albumin levels and CA-125 in all ovarian cancers, stage III and IV, stage of progression, histopathologic type and ascites.

Keywords: ovarian cancer, albumin, CA-125, ascites