

**HUBUNGAN KADAR CA-125 DENGAN STADIUM FIGO KANKER
OVARIUM TIPE EPITEL RSUD PROF. DR. MARGONO SOEKARJO
TAHUN 2021-2025**

ABSTRAK

Latar belakang: Berdasarkan data GLOBOCAN (2022) Indonesia menempati peringkat ke 10 dengan kasus kanker ovarium terbanyak yaitu sebesar 14. 896. Lebih dari 95% jenis kanker ovarium yang paling sering dijumpai yaitu kanker ovarium epitel. WHO (2022) juga mencantumkan data mortalitas kasus kanker ovarium sebesar 206.956 atau 2,1% dari keseluruhan kematian kanker wanita. Sebagian besar pasien terdiagnosis pada stadium lanjut. Stadium pada kanker ovarium berperan penting dalam membantu memahami penyebaran kanker, rencana pengobatan, dan prognosis dari penyakit. Salah satu tumor marker yang paling banyak digunakan dalam evaluasi kanker ovarium adalah *Cancer Antigen 125* (CA-125). Cancer Antigen 125 merupakan penanda tumor antigenetik yang diekspresikan oleh neoplasma ovarium epitel dan sel-sel yang melapisi beberapa organ seperti endometrium, tuba fallopi, pleura, peritoneum, dan pericardium. **Metode:** penelitian ini adalah penelitian *observasional analitik* dengan pendekatan cross-sectional, yang menggunakan data rekam medis pasien untuk mengetahui hubungan antara kadar CA-125 dengan stadium mikroskopis kanker ovarium epitel di RSUD Margono Soekarjo selama periode 2021-2025. **Hasil:** Hasil penelitian menunjukkan variasi kadar CA-125 pada setiap subtype kanker ovarium tipe epitel. Stadium kanker ovarium didominasi oleh stadium 3 pada seluruh subtype kanker ovarium tipe epitel. Penelitian ini menunjukkan bahwa terdapat hubungan bermakna antara kadar CA-125 dengan stadium FIGO kanker ovarium tipe epitel dengan kekuatan korelasi sangat kuat pada subtype *Mucinous Carcinoma* dan *Clear Cell Carcinoma* dengan nilai koefisien korelasi positif pada semua subtype kanker ovarium tipe epitel. **Kesimpulan:** Terdapat hubungan antara kadar CA-125 dengan stadium FIGO yang ditunjukkan dengan semakin tinggi stadium maka semakin tinggi kadar CA-125 pada kanker ovarium tipe epitel

Kata kunci: Kadar CA-125, Stadium FIGO, Kanker ovarium tipe epitel

**RELATIONSHIP BETWEEN CA-125 LEVELS AND FIGO STAGE OF
EPITHELIAL OVARIAN CANCER AT PROF. DR. MARGONO SOEKARJO
HOSPITAL IN 2021-2025**

ABSTRACT

Background: Based on GLOBOCAN data (2022), Indonesia ranks 10th with the highest number of ovarian cancer cases, with 14,896. More than 95% of the most common types of ovarian cancer are epithelial ovarian cancer. WHO (2022) also lists mortality data for ovarian cancer cases at 206,956 or 2.1% of all female cancer deaths. Most patients are diagnosed at an advanced stage. The stage of ovarian cancer plays an important role in helping to understand the spread of cancer, treatment plans, and prognosis of the disease. One of the most widely used tumor markers in ovarian cancer evaluation is Cancer Antigen 125 (CA-125). Cancer Antigen 125 is an antigenic tumor marker expressed by epithelial ovarian neoplasms and cells lining several organs such as the endometrium, fallopian tubes, pleura, peritoneum, and pericardium. **Method:** This study is an analytical observational study with a cross-sectional approach, which uses patient medical records to determine the relationship between CA-125 levels and the microscopic stage of epithelial ovarian cancers at Margono Soekarjo Regional General Hospital during the period 2021-2025. **Results:** The results showed variations in CA-125 levels in each subtype of epithelial ovarian cancer. Ovarian cancer stages were dominated by stage 3 in all subtypes of epithelial ovarian cancer. This study shows that there is a significant relationship between CA-125 levels and the FIGO stage of epithelial ovarian cancer with a very strong correlation strength in the Mucinous Carcinoma and Clear Cell Carcinoma subtypes with a positive correlation coefficient value in all subtypes of epithelial ovarian cancer. **Conclusion:** There is a relationship between CA-125 levels and FIGO stage, which is indicated by the higher the stage, the higher the CA-125 levels in epithelial ovarian cancer.

Keywords: CA-125 Level, FIGO Stage, Epithelial Ovarian Cancer