

**HUBUNGAN EKSPRESI Ki-67 DENGAN  
DERAJAT DIFERENSIASI SEL KARSINOMA PAYUDARA  
DI RSUD PROF. DR. MARGONO SOEKARJO**

**ABSTRAK**

**Latar Belakang.** Ki-67 berhubungan dengan keagresifan tumor yang berperan dalam peningkatan derajat karsinoma payudara yang dapat diukur dengan derajat diferensiasi sel. Peningkatan Ki-67 dapat menjadi tanda prognostik pada karsinoma payudara dan dapat digunakan sebagai penanda target terapi.

**Tujuan.** Penelitian ini bertujuan untuk mengetahui hubungan antara pola ekspresi Ki-67 dengan derajat diferensiasi karsinoma payudara di RSUD Prof. Dr. Margono Soekarjo Purwokerto (RSMS).

**Metode.** Penelitian ini menggunakan desain observasional dengan studi *Cross-Sectional* pada pasien karsinoma payudara di RSUD Prof. Dr. Margono Soekarjo Purwokerto Periode 1 Januari 2017-31 Desember 2021. *Total Sampling* dilakukan terhadap pasien yang memenuhi kriteria penelitian ini dan didapatkan sebanyak 394 sampel. Derajat diferensiasi karsinoma payudara ditentukan berdasarkan kriteria *Nottingham Histologic Score* dan pola ekspresi Ki-67 berdasarkan metode pemeriksaan yang digunakan Laboratorium Patologi Anatomi RSMS. Data disajikan dalam bentuk distribusi frekuensi relative. Analisis bivariat dengan *spearman* dengan taraf signifikansi 0.05 untuk mengetahui korelasi antar variabel.

**Hasil.** Didapatkan korelasi positif yang sangat lemah antara ekspresi Ki-67 dan derajat diferensiasi karsinoma payudara ( $r=0,239$ ;  $p=0,000$ ).

**Kesimpulan.** Terdapat hubungan antara ekspresi Ki-67 dengan derajat diferensiasi sel karsinoma payudara di RSUD Prof. Dr. Margono Soekarjo

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**Kata kunci:** Derajat diferensiasi, Karsinoma payudara, Pola ekspresi Ki-67

**RELATIONSHIP BETWEEN KI-67 EXPRESSION AND  
CELL DIFFERENTIATION DEGREE OF BREAST CARCINOMA  
AT RSUD PROF. DR. MARGONO SOEKARJO**

**ABSTRACT**

**Backgrounds.** Ki-67 is associated with aggressivity of tumor which plays a role in increasing the grade of breast carcinoma which can be measured by the degree of cell differentiation. Elevation of Ki-67 can be used as prognostic sign of breast carcinoma and also as a marker of therapeutic targets.

**Objective.** This study aims to determine the relation between Ki-67 expression patterns and the differentiation degree of breast carcinoma at RSUD Prof. Dr. Margono Soekarjo Purwokerto (RSMS).

**Method.** This is an observational study with a cross-sectional method that applied on breast carcinoma patients at RSUD Prof. Dr. Margono Soekarjo Purwokerto that recorder for the period of January 1<sup>st</sup> 2017 – December 31<sup>st</sup> 2021. Total sampling method was conducted on patients who met the criteria of this study and obtained as many as 307 samples. The degree of breast carcinoma differentiation is determined based on *Nottingham Histologic Score* criteria and Ki-67 expression patterns determined based on the examination by the Anatomical Pathology Laboratory of RSMS. Data are presented in form of relative frequency distribution. Bivariate analysis using Spearman with a significance level of 0.05 to determine the correlation between variables.

**Results.** A very weak positive correlation was found between Ki-67 expression and the differentiation degree of breast carcinoma ( $r = 0.239$ ;  $p = 0.000$ ).

**Conclusion.** There is a positive relation between Her-2 expression patterns and the degree of breast carcinoma differentiation at RSUD Prof. Dr. Margono Soekarjo Purwokerto.

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**Keywords:** Differentiation degree, Breast carcinoma, Ki-67 expression pattern