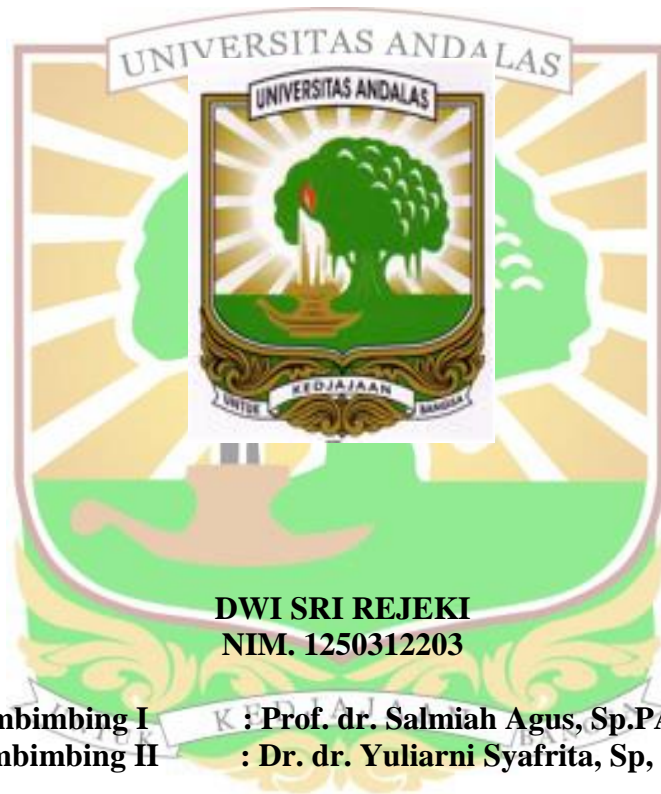


**HUBUNGAN EKSPRESI RESEPTOR PROGESTERON  
DAN KI-67 LABELING INDEX PADA DERAJAT  
HISTOPATOLOGIK MENINGIOMA**

**TESIS**



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# HUBUNGAN EKSPRESI RESEPTOR PROGESTERON DAN Ki-67 LABELING INDEX PADA DERAJAT MENINGIOMA

## ABSTRAK

### Latar Belakang

Meningioma adalah tumor yang berasal dari sel *meningothelial* (arachnoid) yang menempel pada duramater. Tumor ini merupakan tumor terbanyak kedua pada susunan saraf pusat. Banyak penelitian yang menunjukkan bahwa Reseptor Progesteron mempengaruhi derajat meningioma. Ki-67 LI juga mempunyai peranan penting dalam menentukan risiko rekurensi pada derajat meningioma, oleh karena itu, pada meningioma diperlukan pemeriksaan Reseptor Progesteron dan Ki-67 LI untuk melihat perangai dari sel tumor yang dapat menentukan terapi dan prognosis.

### Metode

Penelitian menggunakan metode *cross-sectional study*. Sampel penelitian ini adalah penderita meningioma di 5 Laboratorium Patologi Anatomi Sumatra Barat. Didapatkan sebanyak 64 kasus meningioma selama Januari 2012 sampai Desember 2015, dan 35 sampel diambil yang memenuhi kriteria inklusi. Dilakukan pemeriksaan imunohistokimia menggunakan antibodi yang spesifik dengan Reseptor Progesteron dan Ki-67. Analisis statistik menggunakan uji *Kruskal-Wallis Test* dan dianggap bermakna bila  $p < 0,05$ .

### Hasil:

Sebanyak 35 sampel terdiri atas 29 sampel (82,9%) meningioma WHO derajat I, 4 sampel (11,4%) meningioma derajat II dan 2 sampel (5,7%) meningioma derajat III. Meningioma paling banyak ditemukan pada kelompok usia 41-50 tahun, jenis kelamin perempuan dan derajat histopatologik WHO derajat I.

### Kesimpulan

Tidak terdapat hubungan antara ekspresi reseptor progesteron dengan derajat meningioma. Tidak terdapat perbedaan ekspresi reseptor progesteron pada derajat histopatologik meningioma. Tidak terdapat perbedaan ekspresi Ki-67 LI pada derajat meningioma. Terdapat hubungan terbalik antara ekspresi reseptor progesteron dan Ki-67 LI pada derajat histopatologik meningioma.

**Kata kunci:** Derajat histopatologik meningioma, Reseptor Progesteron, Ki-67 LI

## **THE CORRELATION PROGESTERONE RECEPTOR EXPRESSION and KI-67 LABELING INDEX OF DEGREES MENINGIOMA**

### **ABSTRACT**

#### **Background**

Meningioma is a tumor originating from meningotheelial cells (arachnoid) attached to the dura mater. These tumor is the second most tumor in the central nervous system. Many studies have shown that Progesterone Receptor influence the degree of meningioma. Ki-67 LI also has an important role in determining risk of recurrence in the degree meningioma. Therefore, the examination of Progesterone Receptor and Ki-67 LI in meningioma is required to see the character of a meningioma tumor cells and hence to determine treatment and prognosis.

#### **Methods**

The study was a cross-sectional study, which was conducted to patients with diagnosis of meningioma from 5 Pathological Anatomy Laboratories in West Sumatra. A total of 64 cases of meningioma were during January 2012 to December 2015 and 35 samples were taken and met the inclusion criteria. The samples of meningioma were classified into groups based on WHO grade criteria. An immunohistochemical examination was conducted to explore the expression of Progesterone receptor and Ki-67 using specific antibodies to Progesterone Receptor and Ki-67. Data collected were analyzed using the Kruskal-Wallis test and p value <0.05 was considered as statistically significant.

#### **Results**

From a total of 35 samples, 29 samples (82,9%) were meningioma WHO grade I, 4 samples(11,4%) meningioma WHO stage II and 2 samples (5,7%) meningioma WHO Grade III. Meningioma was most prevalent in the age range 41-50 years, female gender and the degree of histopathological WHO degree I.

#### **Conclusion**

There was no correlation contradiction expression of progesterone receptor in histopathological degree of meningioma. There was no correlation contradiction expression of Ki-67 LI in histopathological degree of meningioma. There was an inverse correlation between the expression of Progesterone Receptors and Ki-67 LI in histopathological degree of meningioma.

**Keywords:** histopathological degree of meningioma, Progesterone Receptor, Ki-67 LI