

# Korelasi antara ekspresi reseptor leptin endometrium dengan ekspresi reseptor $\alpha$ 3 integrin endometrium pada fase luteal madya pasien infertilitas = Correlation between endometrial leptin receptor expression with endometrial integrin $\alpha$ 3 receptor expression in luteal phase in infertility patients

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## Abstrak

Tesis ini bertujuan untuk mengetahui korelasi antara ekspresi reseptor leptin endometrium dengan ekspresi reseptor  $\alpha$ 3 integrin endometrium pada fase luteal madya pasien infertilitas, untuk mencari tahu salah satu penyebab kegagalan implantasi. Nilai leptin lokal endometrium dinilai melalui ekspresi leptin endometrium dan daya terima endometrium dinilai melalui ekspresi reseptor  $\alpha$ 3 integrin endometrium. Penelitian ini dengan desain potong lintang di RSUPN Dr. Cipto Mangunkusumo. Ekspresi reseptor dinilai dari H-score pada pewarnaan imunohistokimia yang diambil dengan cara biopsi endometrium sebagai baku emas. Dari 30 sampel didapatkan ekspresi reseptor leptin endometrium baik pada 23 sampel (76,7%), ekspresi reseptor leptin endometrium buruk pada 7 sampel (23,3%), sedangkan hasil daya terima endometrium baik pada 24 sampel (80%), dan daya terima endometrium buruk pada 6 sampel (20%). Uji analisis membuktikan kadar leptin serum berkorelasi kuat dengan ekspresi leptin endometrium ( $r=0,67;p<0,01$ ) dengan ekspresi leptin endometrium, dan ekspresi leptin endometrium berkorelasi dengan daya terima endometrium ( $r=0,72;p<0,01$ ). Analisis multivariat menyebutkan faktor-faktor yang berpengaruh terhadap daya terima endometrium secara berurutan adalah progesteron, ekspresi leptin endometrium, dan kadar leptin serum. ;The aim of this study is to correlate between endometrial leptin receptor expression with endometrial integrin  $\alpha$ 3 expression on mid luteal phase of infertility patients to know one of the cause of implantation failure. Leptin played important role in female neuroendocrine and endometrial implantation. Local leptin value were assessed through the expression of leptin endometrial receptor and endometrial receptivity assessed through the expression of integrin  $\alpha$ 3 endometrial. This study was crosssectional design in RSUPN Dr. Cipto Mangunkusumo. The expression of

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on immunohistochemical staining were taken by endometrial biopsy as the gold standard. From 30 samples obtained, good endometrial leptin receptor expression were found in 23 samples (76.7%), poor endometrial leptin receptor expression in were found 7 samples (23.3% ), good endometrial receptivity were found in 24 samples (80%) and poor endometrial receptivity in 6 samples (20%). Result of this study show leptin serum was strongly correlated ( $r=0,67;p<0,01$ ) with leptin endometrial receptor expression and endometrial leptin receptor expression was strongly correlated with endometrial integrin  $\alpha 3$  expression ( $r=0,72;p<0,01$ ). Multivariate analysis show factors that correlate to endometrial receptivity sequentially are progesterone, endometrial leptin receptor, and leptin serum.