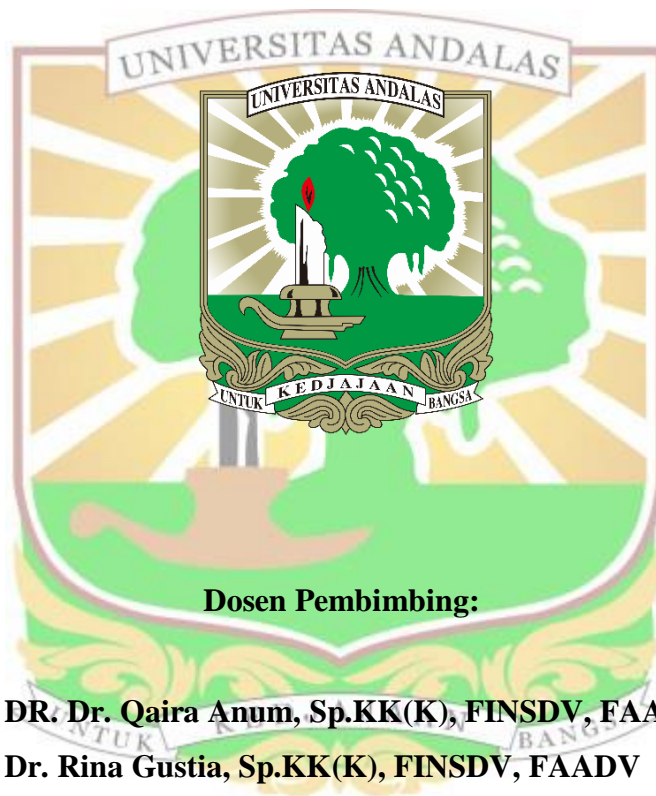


**HUBUNGAN KADAR CD4<sup>+</sup> PLASMA DENGAN UKURAN LESI  
KONDILOMA AKUMINATA ANOGENITAL**

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# DAR CD4<sup>+</sup> PLASMA DENGAN UKURAN LESI KONDILOMA AKUMINATA ANOGENITAL

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## Abstrak

### Latar belakang

Kondiloma akuminata anogenital (KAA) merupakan infeksi menular seksual disebabkan oleh *Human papillomavirus* (HPV). Ukuran lesi KAA dipengaruhi oleh beberapa faktor diantaranya lamanya penyakit, pengobatan sebelumnya, tipe HPV dan kadar CD4<sup>+</sup> plasma. Hubungan kadar CD4<sup>+</sup> plasma dengan ukuran lesi KAA hingga saat ini masih diperdebatkan, untuk itu peneliti tertarik meneliti mengenai hubungan kadar CD4<sup>+</sup> plasma dengan ukuran lesi KAA ini.

### Tujuan

Untuk mengetahui hubungan kadar CD4<sup>+</sup> plasma dengan ukuran lesi kondiloma akuminata anogenital.

### Subjek dan Metode

Penelitian ini dilakukan di Poliklinik Kulit dan Kelamin RSUP Dr.M.Djamil Padang dan Laboratorium Sentral RSUP Dr.M.Djamil Padang selama periode April-Oktober 2021. Metode penelitian adalah observasional dengan desain *cross sectional study*. Pengambilan sampel dilakukan secara *consecutive sampling* dengan kriteria inklusi pasien KAA berusia 17-55 tahun serta kriteria eksklusi hamil, menyusui dan HIV-AIDS. Ukuran lesi KAA diukur berdasarkan volume lesi, kadar CD4<sup>+</sup> plasma diukur menggunakan *flow cytometry Pima™ Analyzer*.

### Hasil

Pada penelitian ini didapatkan 8 pasien KAA. Tidak terdapat perbedaan kelompok usia yang menderita KAA, baik kelompok usia 17-25 tahun ataupun 26-35 tahun yaitu 50%. Kadar CD4<sup>+</sup> plasma rerata pasien KAA adalah 521 sel/ $\mu$ L dan rerata volume ukuran lesi 0,57 cm<sup>3</sup>. Didapatkan korelasi positif kuat ( $r=0,786$ ). Hasil ini menunjukkan bahwa semakin rendah kadar CD4<sup>+</sup> plasma maka semakin kecil ukuran lesi KAA. Perhitungan korelasi antara kadar CD4<sup>+</sup> plasma dengan ukuran lesi didapatkan hasil nilai  $p$  value=0,021 ( $p<0,05$ ).

### Kesimpulan

Terdapat korelasi positif kuat dan bermakna secara statistik antara kadar CD4<sup>+</sup> plasma dengan ukuran lesi kondiloma akuminata anogenital pada pasien.

**Kata kunci:** kondiloma akuminata anogenital, kadar CD4<sup>+</sup> plasma, ukuran lesi

# THE RELATION BETWEEN CD4<sup>+</sup> PLASMA'S LEVEL WITH THE SIZE OF ANOGENITAL CONDYLOMA ACUMINATA'S LESION

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## Abstract

### Background

Condyloma acuminata anogenital is a sexually transmitted disease caused by *Human papillomavirus* (HPV). The size of the CAA lesion is influenced by several factors including the duration of the disease, previous treatment, HPV type and CD4<sup>+</sup> plasma's levels. The relationship between CD4<sup>+</sup> plasma's levels and the size of CAA lesions is still being debated, therefore researchers are interested in examining the relationship between CD4<sup>+</sup> plasma's levels and the size of these CAA lesions.

### Aim

To determine the relation between the CD4<sup>+</sup> plasma's level with the size of the condyloma acuminata anogenital.

### Subject dan Method

This research was conducted at the Dermatology and Venereology Outpatient Clinic, Dr. M. Djamil Hospital, Padang and the Central Laboratory of Dr. M. Djamil Hospital, Padang during the period April-October 2021. The research method was observational with a cross sectional study design. Sampling was done by consecutive sampling with inclusion criteria for CAA patients aged 17-55 years and exclusion criteria for pregnancy, breastfeeding and HIV-AIDS. Condyloma acuminata anogenital size lesion was measured by lesion volume, CD4<sup>+</sup> plasma's levels were measured using flow cytometry Pima<sup>TM</sup> Analyzer.

### Result

In this study, 8 patients with CAA were found. There was no difference in age groups suffering from CAA, either in the 17-25 year age group or the 26-35, namely 50%. The mean CD4<sup>+</sup> plasma's level in CAA patients was 521 cells/ $\mu$ L and the mean volume of the lesion was 0.57 cm<sup>3</sup>. There was a strong positive correlation ( $r=0.786$ ). These results indicate that the lower the plasma CD4<sup>+</sup> level, the smaller the size of the anogenital condyloma acuminata lesion. Calculation of the correlation between plasma CD4<sup>+</sup> levels and lesion size showed  $p$  value = 0.021 ( $p < 0.05$ ).

### Conclusion

There was a strong and statistically significant positive correlation between the CD4<sup>+</sup> plasma's level and the lesion's size of the condyloma acuminata anogenital in patients.

**Keywords:** condyloma acuminata anogenital, CD4<sup>+</sup> plasma's level, size of lesion