

POLITEKNIK KESEHATAN TANJUNGPUR
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Desta Marisa

Hubungan Kadar Gula Darah Puasa, Lamanya Menderita, dan Higienitas Vagina Dengan *Candida albicans* Dalam Urin Wanita Penderita *Diabetes Mellitus* Tipe 2 Di Rumah Sakit Pertamina Bintang Amin Bandar Lampung

xvi + 41 halaman, 5 gambar, 8 tabel, dan 9 lampiran

ABSTRAK

Kandidiasis adalah infeksi jamur oportunistik yang disebabkan oleh *Candida*. 70-80% infeksi kandidiasis disebabkan oleh *Candida albicans*. *Candida albicans* dapat menimbulkan penyakit primer atau sekunder bila terdapat faktor predisposisi, yaitu keadaan yang menguntungkan pertumbuhan jamur tersebut. Faktor predisposisi tersebut salah satunya *Diabetes Mellitus*. *Diabetes Mellitus* merupakan penyakit kronis yang ditandai dengan tingginya kadar gula darah akibat terganggunya proses produksi insulin oleh pankreas, sehingga kerja dari insulin tidak optimal. Tujuan penelitian ini diketahui hubungan kadar gula darah puasa, lamanya menderita, dan higienitas vagina dengan *Candida albicans* dalam urin penderita *Diabetes Mellitus* di RS Pertamina Bintang Amin Bandar Lampung. Jenis penelitian ini observasional analitik, dengan menggunakan desain penelitian *cross sectional*. Analisis data menggunakan uji *Chi-Square*. Penelitian ini dilakukan di RS Pertamina Bintang Amin Bandar Lampung selama 19-30 April 2024. Sampel penelitian ini adalah 30 pasien *Diabetes Mellitus* yang menjalani rawat jalan dan pemeriksaan kadar gula darah puasa. Penelitian dilakukan dengan menggunakan media SDA, pengecatan gram, dan uji spesifik Germ-tube. Hasil menunjukkan adanya hubungan kadar gula darah puasa, lamanya menderita, dan higienitas vagina dengan *Candida albicans* dalam urin wanita penderita *Diabetes Mellitus* dengan hasil nilai kadar gula darah $p\text{-value} = 0.010$, lamanya menderita $p\text{-value} = 0.030$, higienitas vagina $p\text{-value} = 0.017$.

Kata Kunci : *Candida albicans*, *Diabetes Mellitus*, kadar gula darah puasa, lamanya menderita, higienitas vagina

Daftar Bacaan : 42 (2000-2023)

**TANJUNGPURBA HEALTH POLYTECHNIC
BACHELOR OF APPLIED PROGRAM**

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Desta Marisa

The Relationship between Fasting Blood Sugar Levels, Length of Suffering, and Vaginal Hygiene with *Candida albicans* in the Urine of Women Suffering from Type 2 *Diabetes Mellitus* at Pertamina Bintang Amin Hospital Bandar Lampung

xvi + 41 pages, 5 figures, 8 tables, and 9 appendices

ABSTRACT

Candidiasis is an opportunistic fungal infection caused by *Candida*. 70-80% of candidiasis infections are caused by *Candida albicans*. *Candida albicans* can cause primary or secondary disease if there are predisposing factors, namely conditions that favor the growth of the fungus. One of these predisposing factors is *Diabetes Mellitus*. *Diabetes Mellitus* is a chronic disease characterized by high blood sugar levels due to disruption of the insulin production process by the pancreas, so that insulin does not work optimally. The aim of this research was to determine the relationship between fasting blood sugar levels, duration of suffering, and vaginal hygiene with *Candida albicans* in the urine of *Diabetes Mellitus* sufferers at Pertamina Bintang Amin Hospital Bandar Lampung. This type of research is analytical observational, using a cross sectional research design. Data analysis used the *Chi-Square test*. This research was conducted at Pertamina Bintang Amin Hospital Bandar Lampung during 19-30 April 2024. The sample for this research was 30 *Diabetes Mellitus* patients undergoing outpatient care and checking fasting blood sugar levels. The research was carried out using SDA media, gram staining, and specific *Germ-tube* tests. The results show that there is a relationship between fasting blood sugar levels, duration of suffering, and vaginal hygiene with *Candida albicans* in the urine of women suffering from *Diabetes Mellitus* with the results of blood sugar levels *p-value* = 0.010, duration of suffering *p-value* = 0.030, vaginal hygiene *p-value* = 0.017.

Keywords : *Candida albicans, Diabetes Mellitus, fasting blood sugar levels, duration of suffering, vaginal hygiene*

Reading List : 42 (2000-2023)