

**POLTEKNIK KESEHATAN TANJUNGPINANG**  
**JUURUSAN TEKNOLOGI LABORATORIUM MEDIS**  
**PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIS**  
**PROGRAM DIPLOMA TIGA**  
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Revy Aprilia

**Gambaran Kadar Asam Urat Pada Penderita Diabetes Melitus Tipe I dan II  
Di Wilayah Kerja Puskesmas Rawat Inap Kedaton Bandar Lampung Tahun  
2021**

Xv+18 halaman, 1 gambar, 4 tabel, 6 Lampiran

**ABSTRAK**

Diabetes melitus atau biasa dikenal dengan penyakit kencing manis adalah penyakit gangguan metabolisme kronis tubuh akibat ketidak mampuan tubuh menggunakan insulin dengan baik dalam mengatur keseimbangan gula darah sehingga meningkatkan kadar gula dalam darah. Pada penderita diabetes melitus terjadi peningkatan sitokin proinflamasi yang dapat menyebabkan peningkatan aktivitas enzim xanthine oxidase sebagai katalisator pembentukan asam urat. Tujuan penelitian ini untuk mengetahui gambaran kadar asam urat pada penderita diabetes melitus tipe I dan II di wilayah kerja Puskesmas Rawat Inap Kedaton Bandar Lampung tahun 2021. Penelitian ini bersifat deskriptif dengan sampel 572 penderita diabetes melitus yang melakukan pemeriksaan asam urat di Puskesmas Rawat Inap Kedaton Bandar Lampung tahun 2021. Penelitian dilakukan bulan Maret-Juni 2022. Hasil penelitian didapatkan penderita diabetes melitus tipe I yang melakukan pemeriksaan asam urat 13 orang (2,27%) dan penderita diabetes melitus tipe II yang melakukan pemeriksaan asam urat 559 orang (97,72%). Rata-rata kadar asam urat pada jenis kelamin laki-laki 7,2 mg/dl, kadar asam urat terendah 2,9 mg/dl, kadar asam urat tertinggi 12,9 mg/dl sedangkan pada jenis kelamin perempuan rata-rata kadar asam urat 6,3 mg/dl, kadar asam urat terendah 2,0 mg/dl, kadar asam urat tertinggi 13,9 mg/dl. Jumlah penderita diabetes melitus tipe I dan II pada laki-laki yang memiliki asam urat rendah 2 orang, normal 87 orang, tinggi 112 orang. Sedangkan pada perempuan yang memiliki asam urat rendah 5 orang, normal 168, tinggi 198. Jumlah penderita diabetes melitus tipe I tidak terdapat kadar asam urat rendah, kadar asam urat normal sebanyak 7 orang (53,84%), kadar asam urat tinggi sebanyak 6 orang (46,15%). Sedangkan pada diabetes melitus tipe II kadar asam urat rendah sebanyak 7 orang (1,25%), kadar asam urat normal sebanyak 250 orang (44,72%), kadar asam urat tinggi sebanyak 302 orang (54,02%).

**Kata Kunci** : Diabetes melitus, asam urat, puskesmas Kedaton  
**Daftar Bacaan** : 16 (2010-2021)

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**Overview of Uric Acid Levels in Type I and Type II Diabetes Mellitus Patients in the Work Area of the Kedaton Inpatient Health Center Bandar Lampung in 2021**

Xv+18 pages, 1 picture, 4 tables, 6 Attachments

**ABSTRACT**

Diabetes mellitus or commonly known as diabetes is a chronic metabolic disorder of the body due to the body's inability to use insulin properly in regulating blood sugar balance, thereby increasing blood sugar levels. In patients with diabetes mellitus there is an increase in proinflammatory cytokines which can cause an increase in the activity of the xanthine oxidase enzyme as a catalyst for the formation of uric acid. This research is descriptive with a sample of 572 people with diabetes mellitus who underwent uric acid checks at the Kedaton Inpatient Health Center Bandar Lampung in 2021. The study was carried out in March-June 2022. The results showed that 13 people with type I diabetes mellitus had uric acid examination ( 2.27%) and patients with type II diabetes mellitus who did uric acid examination 559 people (97.72%). The average uric acid level in the male sex is 7.2 mg/dl, the lowest uric acid level is 2.9 mg/dl, the highest uric acid level is 12.9 mg/dl, while the female gender is the average uric acid level. uric acid level is 6.3 mg/dl, the lowest uric acid level is 2.0 mg/dl, the highest uric acid level is 13.9 mg/dl. The number of people with diabetes mellitus type I and II in men who have low uric acid is 2 people, normal is 87 people, high is 112 people. Whereas in women who have low uric acid 5 people, normal 168, high 198. The number of people with type I diabetes mellitus has no low uric acid levels, normal uric acid levels are 7 people (53.84%), high uric acid levels are 6 people (46.15%). Whereas in type II diabetes mellitus, low uric acid levels were 7 people (1.25%), normal uric acid levels were 250 people (44.72%), high uric acid levels were 302 people (54.02%).

**Keywords** : Diabetes melitus, asam urat, puskesmas Kedaton

**Reading list** : 16 (2010-2021)