

Title	Plasma levels of glibenclamide in diabetic patients during its routine clinical administration determined by a specific radioimmunoassay
Sub Title	
Author	松田, 文子(Matsuda, Ayako) 葛谷, 健( Kuzuya, Takeshi) 杉田, 泰雄( Sugita, Yasuo) 川島, 紘一郎( Kawashima, Koichiro)
Publisher	共立薬科大学
Publication year	1984
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.29 (1984. ) ,p.53- 53
Abstract	
Notes	抄録
Genre	Technical Report
URL	<a href="http://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000029-0053">http://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000029-0053</a>

**Plasma Levels of Glibenclamide in Diabetic Patients during  
its Routine Clinical Administration Determined  
by a Specific Radioimmunoassay\***

Ayako MATSUDA\*\*, Takeshi KUZUYA\*\*, Yasuo SUGITA\*\*  
and Koichiro KAWASHIMA

松田文子\*\*, 葛谷 健\*\*, 杉田泰雄\*\*, 川島紘一郎

Plasma concentration of glibenclamide in routine clinical practice was determined by a specific radioimmunoassay. In diabetic patients treated with glibenclamide for a month or longer, the drug level in fasting morning plasma was variable but the mean level paralleled the daily dose. After oral administration of 2.5 mg in healthy and diabetic subjects, the drug level reached peaks in 1.5 hours and declined to the half of the peak level in next 2—3 hours. The plasma glibenclamide profile after oral dose did not differ significantly in patients with secondary failure to the drug. Comparison of a single-dose and divided-dose schedules of 5 mg glibenclamide revealed that plasma drug level increased each time after administration. Plasma glucose and insulin concentrations did not differ significantly at most times of the day but there was a tendency that increment of plasma glucose after meal was suppressed by a dose taken immediately before a meal. The relationship of blood level of glibenclamide to clinical effectiveness may be rather indirect and needs to be elucidated.

---

\* 本報告は *Hormone Metabol. Res.*, 15, 425—428 (1983) に発表

\*\* 自治医大・薬理