



Assuit University Hospitals



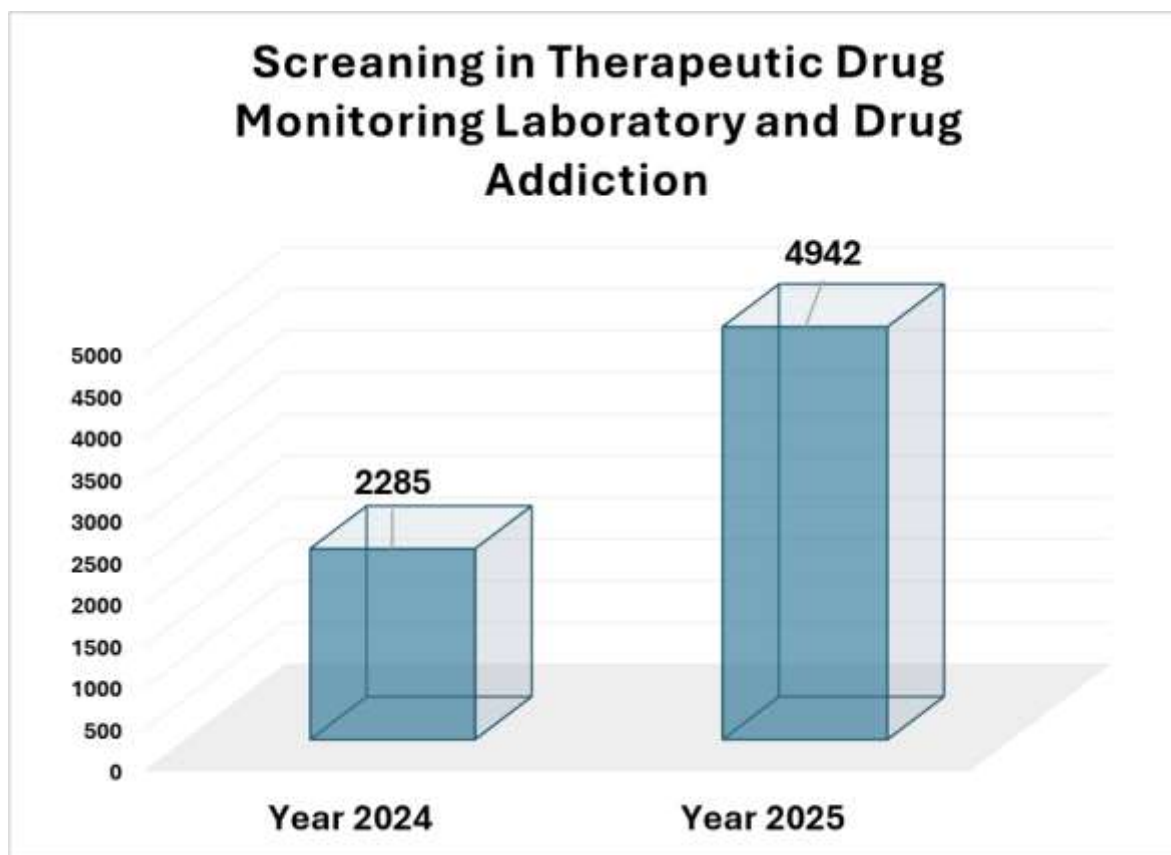
Therapeutic Drug Monitoring Laboratory and Drug Addiction

INTRODUCTION

Therapeutic Drug Monitoring (TDM) Laboratory has been established in 1995, to which Assay of Drugs of Abuse unit was added in 2006 to establish a relationship between plasma drug concentration and therapeutic response and/or toxicity. This unit is one of the special units of Assuit University Hospitals and is directed by eminent staff members of Pharmacology Department, Faculty of Medicine, Assiut University. This unit is equipped with facilities that allow the physicians optimize prescribed drugs as well as researchers to get involved in the field of pharmacokinetics and to carry out updated drug researches. The unit also offers great services to the community in the field of detection of addicts and follows up the level of such drugs and their metabolites in the urine during withdrawal.

THE SERVICE OFFERED DRUGS:

- The Laboratory can usually provide a result within 30-60 minutes of receipt of the specimen provided accurate sampling time.
- The Laboratory currently offers a routine service for the measurement of the following drugs in plasma and /or urine:



Available assay:

1. Anticonvulsant drugs: Carbamazepine, Phenytoin, Valproic acid.
2. Cardioactive drug: Digoxin
3. Methotrexate
4. Cyclosporine
5. Addicting groups:


 مستشفى جامعة أسيوط
 معمل المراقبة الدوائية للمخدرات

Patient's data

الاسم : _____
 الرقم القومي : _____
 جهة التحويل : _____
 التاريخ : _____

Drug of Abuse	Result	Cut Off
Cannabinoid	Negative سلبى	
Opiates	Negative سلبى	
Benzodiazepines	Negative سلبى	
Barbiturates	Negative سلبى	
Tramadol	Negative سلبى	
Amphetamines	Negative سلبى	

Comment:

6 groups assay are Negative.

النتيجة :

Signature:

التحليل سلبى للمست مجموعات المختبرة

عنوان : مستشفى أسيوط الجامعي - مبنى العيادات الخارجية - الدور الثالث - أمام إدارة الشؤون القانونية
 تليفون /82414196

- The Laboratory is able to provide information and guidance concerning measurement of those drugs listed above.
- Research facilities: For both postgraduates and staff members interested in pharmacokinetics and drug/drug interaction.

SPECIMEN COLLECTION

- It is important to record the exact time and date of the specimen in relation to the last dose of the drug, with a note of all other drugs prescribed.

- In general, a blood specimen should not be taken until "steady-state" has been achieved (approximately five times the drug's half-life). This applies to changes in dosage as well as following the initiation of therapy. Please refer to lab contact number for further guidance on sampling times and minimum sample volumes required for the analysis of specific drugs.

QUALITY ASSURANCE

The TDM services of the Laboratory are monitored both by internal controls and by external controls,

THE UNIT OBJECTIVES

1- The Therapeutic Drug Monitoring Unit (TDM) provides a TDM assay service for antiepileptic drugs (AEDs) and a pharmacokinetic consultation service as an aid to individualizing patient drug therapy. The TDM will undertake the detailed pharmacokinetic investigation of individual patients with unusual clinical response to drugs during therapy or following overdose.

2- The Assay of Drugs of Abuse Laboratory has been established by efforts of pharmacology and psychiatry departments (since 2006) to help the Unit of treatment of addiction in Assuit University Hospital. This laboratory helps in the detection of drugs of abuse (opioids, cocaine, tramadol, methadone, alcohol, barbiturates, benzodiazepines and cannabinoids) and their metabolites in the urine, and can help in the diagnosis & follow up of cases of drug abuse.

3- Research projects for studying the pharmacokinetics and toxicity of approved drugs.

4- Coordination between research affiliations interested in drug applications and dosage.