Cynulliad Cenedlaethol Cymru

Y Pwyllgor lechyd a Gofal Cymdeithasol Ymchwiliad i sylweddau seicoweithredol newydd ("cyffuriau penfeddwol cyfreithlon")

Tystiolaeth gan Heddlu Gogledd Cymru -LH 12

# TICTAC®

# Visual Drug Identification

A comprehensive database for the identification of drugs

Produced by TICTAC Communications at St. George's University of London Medical School

# TICTAC

TICTAC collects and analyses legal & illegal drugs to compile a database for the visual identification of solid dose drugs



## What is TICTAC?

A comprehensive and trusted software & database system for:

- The instant visual identification of solid dose drugs.
- 2. Information, reference and training material on drugs and drugs abuse.
- 3. Insight into new and emerging drugs

#### Which forces/labs use TICTAC?

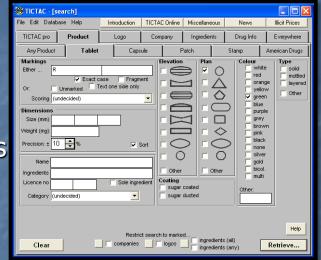
- Avon & Somerset \*
- Bedfordshire\*
- Cambridgeshire \*
- Cheshire
- City Of London \*
- Cleveland\*
- Derbyshire
- Devon & Cornwall \*
- Dorset \*
- Essex
- Europol
- Garda
- Gloucester\*
- Grampian
- Greater Manchester
- Gwent \*
- Guernsey Police
- Hampshire \*
- Hertfordshire
- Home Office
- Kent\*
- Lancashire
- Leicestershire
- Lothian & Borders
- Norfolk \*

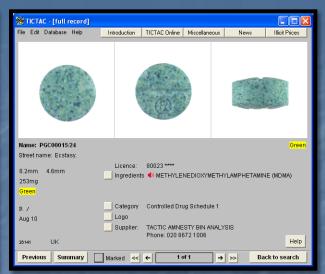
- North Wales\*
- Metropolitan Police
- Nottinghamshire\*
- Royal Navy (Provost Marshal)
- SCDEA
- SOCA
- South Wales
- Strathclyde
- Suffolk \*
- Surrey \*
- Sussex \*
- Staffordshire
- Tayside
- Thames Valley \*
- West Mercia\*
- West Yorkshire
- Environments Scientifics Group
- Forensic Science Service NI
- Guernsey Public Analysts
- Guernsey Customs & Immigration
- Key Forensic Services
- LGC Forensics
- Mass Spec Analytical
- Reading Scientifics

### Three Versions that compliment each other

#### TICTAC Pro

- Original version
- Will run on single computers or networks
- Requires training



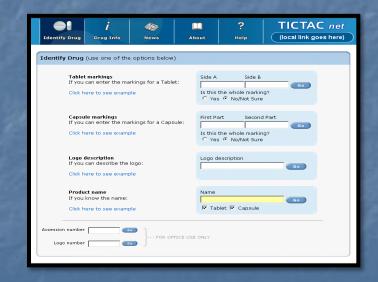


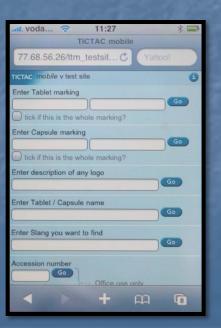
#### **TICTAC Net**

- Runs on Force Intranets
- Simplified interface
- Force-wide access
- Requires No training

#### TICTAC Mobile

- For mobile/Smart phones
- Similar to TICTAC net





© TICTAC Communications Ltd.

#### Who uses TICTAC?

#### **Law & Order**

- UK Police (civil, military)
- Police overseas
- Home Office
- Prisons
- Customs
- Forensic laboratories

#### **Industry**

- Pharmaceutical Industry
  - New product development
  - Market intelligence
  - Rogue tablets
- Food Industry

#### Health

- Drug treatment & support organisations
- Medicines & Healthcare Products Regulatory Agency (MHRA)
- Healthcare Protection Agency (HPA)
- Community pharmacies
- Primary Care Trusts (PCT)
- Nursing/care homes
- Hospitals & pharmacies
  - Patient admissions
  - Mixed batches of tablets
  - Generic prescribing
  - Foreign visitors
  - Treatment of overdoses

#### **Education**

- University schools of forensic science
- University schools of pharmacy

## What TICTAC provides

- Immediate visual identification of tablets & capsules
- Determine the legal status of drugs
- Establish what a drug is used for
- Drug test cross reactivity
- Education, Reference and News on drugs and drug abuse
- Index of drug slang

#### Benefits for the Police

- Instant results saves Police time
- Avoid costly laboratory submission of non-controlled drugs
- Rapid confidential answers to drug ID enquiries
- Education & training
- Pace 2 compliancy in custody
- Supports specialist users

#### **TICTAC SAVES MONEY & SAVES TIME**

## TICTAC users

#### Example of uses within forces

- Control Rooms
- Drug Liaison Officers
- Custody Suites
- Patrol & ACU Officers
- Drug Education / Expert Witness
- Drug Squads / Serious Crime
- Scientific Support
- Property Stores
- Chemist Inspection
- Community Policing
- Scene of Crime Officers
- Traffic (multi-agency vehicle searches)

### Products collected

- Prescription only products
- Over the counter products
- Licensed parallel imports
- Health and herbal
- Veterinary products
- Homeopathic medicines
- Illicit tablets & capsules
- Transdermal patches
- Stamps (mostly LSD)
- Confectionery
- Anything that resembles a tablet or capsule

# TICTAC database

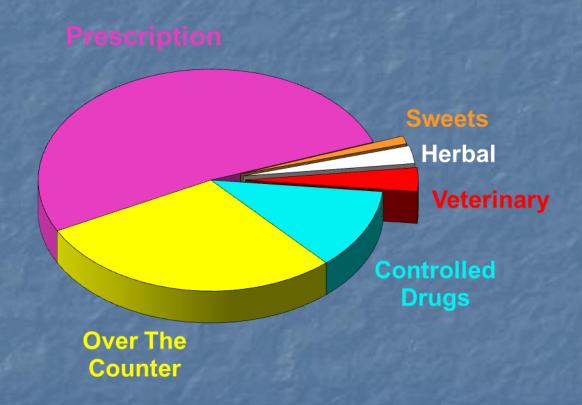
Products (tablets & capsules etc.) 30,000

Drugs (active ingredient) 3,823

Suppliers 1,120

Pictures 77,000+

# Products by status



















POM antiangina – prevent heart attacks

POM - diabetes

POM – epilepsy

















POM antihypertensive - treat high blood pressure, prevent heart attacks















POM – antipsychotic – treat psychoses and other mental illnesses





















**MDMA** 

**MDMA** 

Amphet.

**MDMA** 

2C-B

Amphet.

-Confectionary--

#### Where does the data come from?

- TICTAC subscribers
- Pharmaceutical Industry
- Manufacturers
  - Confectionary
  - Health & Herbal
- Medicines & Healthcare products Regulatory Agency
  - Parallel imports
- Forensic Laboratories
- Police
- Customs
- Prisons
- Test purchases
- Amnesty bin analysis

## Amnesty bin analysis

Innovative data collection methods for illicit drugs

- Drugs deposited in bin as the result of a search as condition of entry to club or music festival
- Bin emptied in the presence of a Police officer
- Contents documented and sealed in evidence bag
- Bag collected from Police station
- Transported to laboratory in evidence bag
- Analysed
- Results disseminated using TICTAC
- Home Office Licensed



# Amnesty bins









http://www.arengineering.co.uk/drugcabinets.html , cost £103 +VAT

Drugs & Clubs



# Drugs and Festivals











# Amnesty bin contents - clubs



Small club



Large club



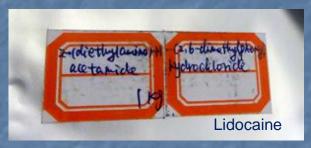
**Cannabis** 

© TICTAC Communications Ltd.



## Impounded drugs















# Test purchasing



#### Test Purchases from websites

AmHiCo









Biorepublik



Red Eye Frog







Everyone Does It























# What we find: Piperazines



### Ecstasy (MDMA)



## Crystals

- Very little crystal meth
- Very little crack cocaine





Lots of crystal MDMA

## Paraphernalia



Cannabis paraphernalia



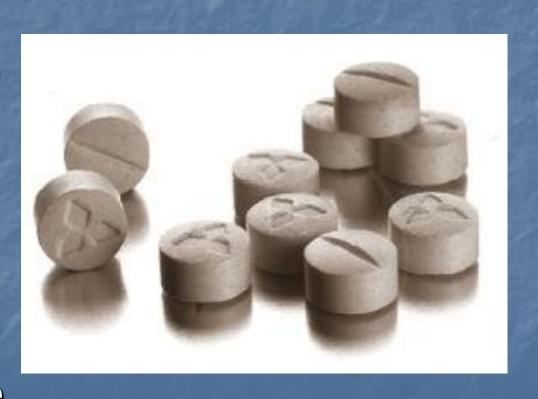


Snorters



# Drugs in ecstasy tablets marked with the Mitsubishi logo

- Ephedrine, Ketamine, Paracetamol, Caffeine
- MDMA
- **Ephedrine**, Caffeine
- Diazepam, Ketamine
- Ephedrine
- Ketamine
- DL-amphetamine
- MDMA, Caffeine
- MDMA, MDEA
- Ephedrine, Ketamine
- PMA, PMMA



### Fake Ecstasy tablets



© TICTAC Communications Ltd.

Hand engraved logo, xanthanol niacinate?

#### Confectionary easily confused with ecstasy



detect artificial sweeteners (e.g. aspartame, acesulfame) as confirmation that product is confectionary

#### Oral Anabolic Steroids



Unexolabs (PVT) Ltd. Pakistan



Methandrostenolone

Unknown



Methandrostenolone



Stanozolol

British Dragon
China



Akrikhin Pharmaceuticals Russia



Stanozolol Unknown



Methandrostenolone
British Dispensary (LP) Co Ltd
Thailand

#### Diazepam tablets of unknown origin



# Hallucinogenic (magic) mushrooms



Psilocybe semilanceata Liberty Cap

http://www.canedintotnes.co.uk/mushrooms/libcap1.htm



£10 13.5g

from Holland?





Psilocybe cubensis Colombia

## Ketamine

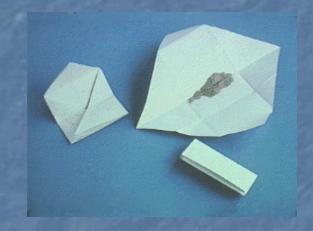
dissociative anaesthetic





Intravenous anaesthetic human & veterinary





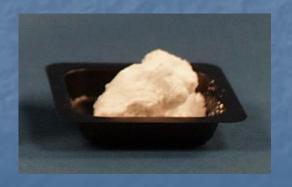


Solution evaporated & powder used in tablets or snorted

## GHB gammahydroxybutyrate

#### GHB is a solid

- usually seen as a liquid also as powder in wraps or plastic bags or in capsules
- methods for GHB production easily available on Internet - produce preparations of unknown concentration





# New Psychoactive substances ("LEGAL HIGHS")































