

Trans European Drug Information

European trends in relation to Drug Checking results

Mireia Ventura PhD

Index



1- TEDI network	K	or!	Inetw	TED	1-
-----------------	---	-----	-------	-----	----

5- Trends on amphetamine and metamphetamine

2- Data presented

6- Trends on ketamine

3- Trends on MDMA

7- Trends on NPS

4- Trends on cocaine

8- Conclusions





Charlott - Augusta





Drug lab bus \$1/93-



Madical University of Vianna - Augmia









Modes Vivendi - Seiglem









Kosmikara - Portugal

The Loss - OK





Swiggerland









Koomikara - Portugal

WESINGS UK



Energy Control - Spain





Drogs Info also - Creat

NTV Neumanni Project -







Finland

The Loop - UK





















Analyse ton Prod.

Safer Dance Seasol -

Switzerland*



Drags info she - Creat

Legal-High-Inhahassoffs -

Garmany







Jeffreit - Natherlands



Druge Info alsa - Creok





TESS manager

Snarpy Cormol - Spain





Monther

Drug Art - Stovenia



Linden

Modes Vivendi - Reigiem





Tibor Harrach Member Drug Cheolding Serlin -

Analyse son Prod.

Top Sample Contributors in the Last Year

Data presented

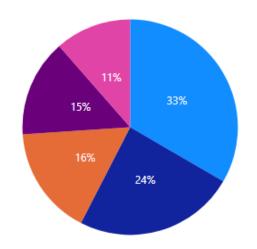
Period of the study: 1/1/2018 - 1/6/2023

Number of samples: 56,000

Different distribution implications:

It is common for 2-3 of the largest contributors to make up over 50% of the samples tested, but we generally see trends quite homogenously across organisations.







Organisations

- WEDINOS
- Other
- Energy Control
- DIZ Zurich
- Checkit



MDMA

Tablet

Date: 01/01/2018 - 01/06/2023

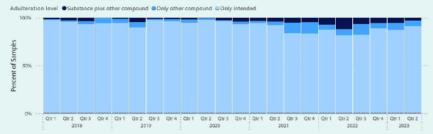
Samples Quantified

6367

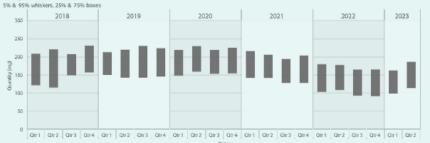
Median number of samples per quarter

273

Adulteration Likelihood- Change Over Time











Date: 01/01/2018 - 01/06/2023

Samples Quantified

5432

Median number of samples per quarter

217

Adulteration Likelihood- Change Over Time

Adulteration level © Only intended © Only other compound © Substance plus other compound

100%

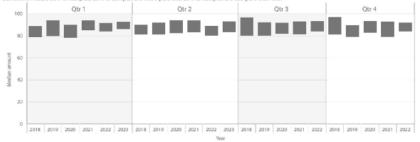
50%

50%

70%

Purity Over Time - B ox Chart

Box shows middle 50% of samples. 25% of samples are more pure and 25% of samples are less pure than this.



COCAINE

Date: 01/01/2018 - 01/06/2023

Samples Quantified

11.92K

518

Highlights

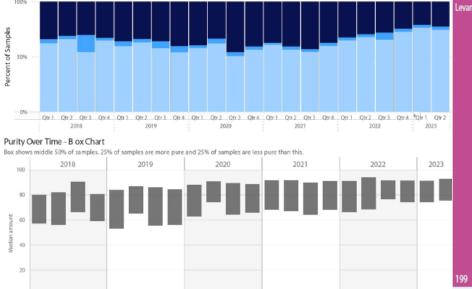
Adulteration decreases and purity increases Type of adulterants remain stable

Caffeine

Median number of samples per quarter

•







Lidocaine

Tetracain

Ketamine

Procaine

Paracetamol 8 8 1

Benzocaine

AMPHETAMINE

Date: 01/01/2018 - 01/06/2023

Samples Quantified

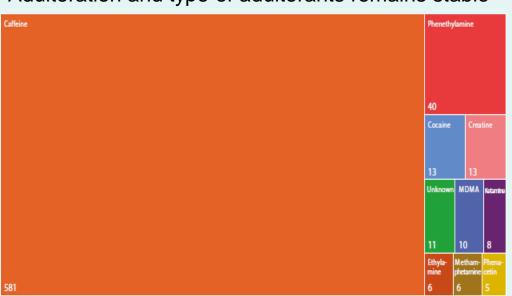
6193



Highlights

Adulteration and type of adulterants remains stable





METHAMPHETAMINE

Date: 01/01/2018 - 01/06/2023

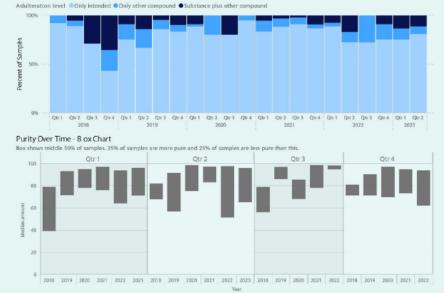
Samples Quantified

637

Median number of samples per quarter

26

Adulteration Likelihood- Change Over Time





Highlights

Low adulteration but substitution plays a role. Less samples analysed and more instability



HEROIN

Date: 01/01/2018 - 01/06/2023

Samples Quantified

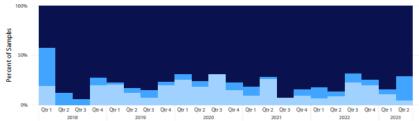
1194

Median number of samples per quarter

54

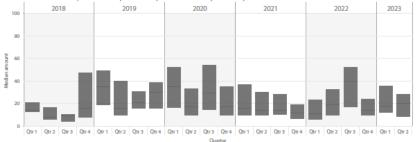
Adulteration Likelihood- Change Over Time

Adulteration level Only intended Only other compound Substance plus other compound



Purity Over Time - B ox Chart

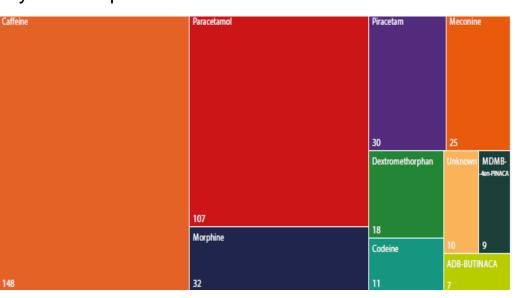
Box shows middle 50% of samples, 25% of samples are more pure and 25% of samples are less pure than this,





Highlights

High adulteration but similar through the years Detection of NPS in some samples but not synthetic opiods



DATA 2023

KETAMINE

Total samples submitted

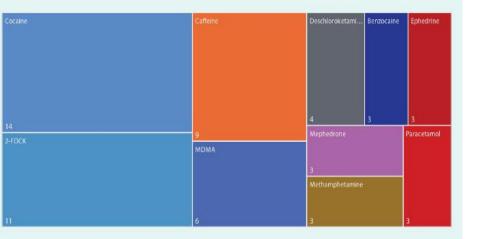
443

Median concentration 84 %

Half of samples will have less than this, half will have more.

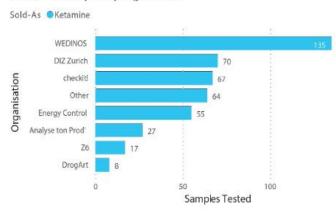
Samples containing none of the drug are excluded from this calculation.

Adulterants detected in samples sold as Ketamine

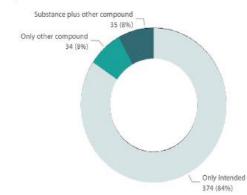


Number of samples by organisation





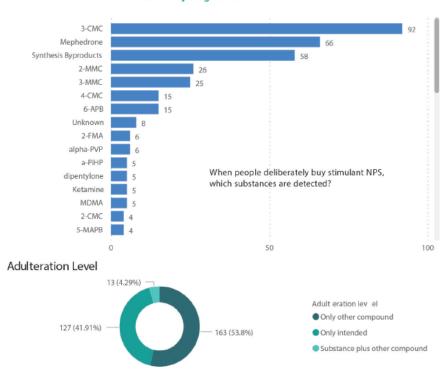
Sample Adulteration Likelihood



SubstanceDetected

STIMULANT NPS

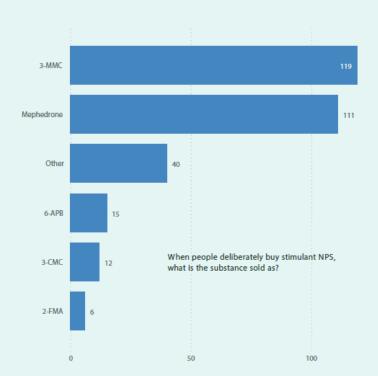
Most commonly detected chemicals in samples intentionally bought as stimulant NPS



SAMPLES SOLD AS:



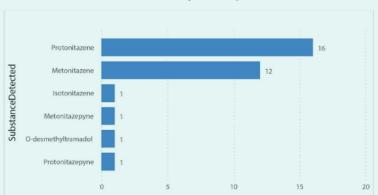
Most common intentionally bought drugs in the stimulant NPS category

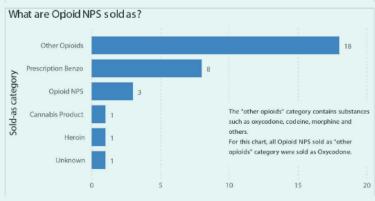


DATA 2023

DETECTIONS OF:

Most commonly detected Opioid NPS



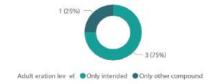


OPIOID NPS



When substances are presented to the testing service as opioid NPS, do they match the presented substance identity?

Adulteration Level



28 of 32

Detections of opioid NPS in substances where they were not expected by the service user.

DATA 2023

PRESCRIPTION BENZO

Total samples submitted

1087

Unexpected substances detected in samples sold as any prescription benzo

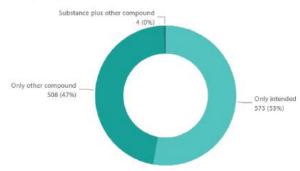


Number of samples by organisation





Sample Adulteration Likelihood



Conclusions



- Drug checking services provide a unique insight into drug markets by obtaining data in contexts that are hard to reach and allowing us to analyze the discrepancy between what persons think they use and what they are actually using.
- Purity of cocaine and MDMA is increasing, as the proportion of impurities from synthesis is reducing. Amphetamine does not show a distinct trend and heroin is highly variable. The market for each drug functions independently.
- The number of NPS is increasing. With NPS we mainly find substitution between them but they are not normally mixed. We see the emergence of new opioids substituting for other substances such as drugs sold on the black market.
- TEDI members are able to detect new "nitazene" opioids, but so far they have only been found in a small number of sedative drugs.



Thank you!