

New psychoactive substances coding – how to adapt to a changing context?

Ana Gallegos, Linda Montanari

TDI/Treatment expert meeting

police

customs

medicine regulators

EU Early Warning System on NPS

public health treatment providers

Europol & EMA

chemists

30

pathologists

Operative since 1997

national early warning systems

toxicologists

policy makers

poison centres

researchers

holistic approach variety of information sources triangulation of information

open source information

law enforcement seizures serious adverse events epidemiology

EMCDDA

signal management
early warning
public health alerts
risk assessment

police

customs

medicine regulators

public health

treatment providers

chemists

pathologists

national early warning systems

toxicologists policy makers

poison centres

researchers

years of monitoring NPS

+620 NPS monitored

~150 public health alerts

23 risk assessments

in the last 3 years / since 2014

~300 NPS newly detected

+ 50 public health alerts

10 risk assessments

police/customs seizures serious adverse events epidemiology

EMCDDA

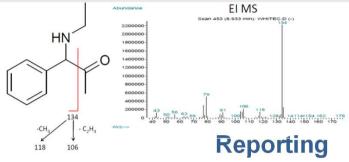
signal management risk communication

> early warning risk assessment

2015 seizures

- ~ 80,000 seizures (+ 2-fold increase as compared to 2014)
- ~ 5 tonnes seized (+ 2-fold increase as compared to 2013)

Multi-source information, data triangulation



forensic analysis & toxicology

law enforcement

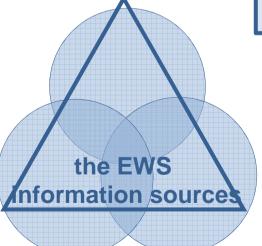
drug checking & surveys

health & care -

Seizures

Collected samples Biological samples

Serious adverse events



Targeted research

test purchase,
wastewater analysis,
computational modelling,
pharmacotoxicological profiling

Open source information

Internet, media, users, scientific/grey literature

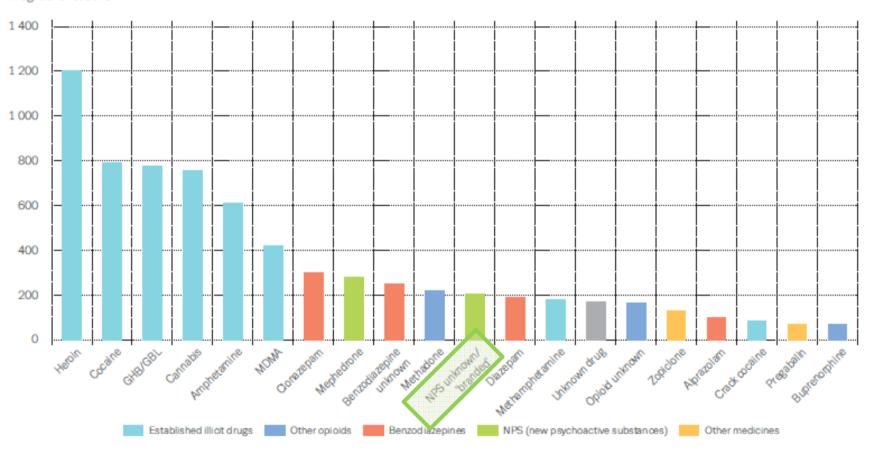




Top 20 drugs recorded in emergency presentations

Top 20 drugs recorded in emergency presentations in sentinel hospitals in 2015

Drug identifications

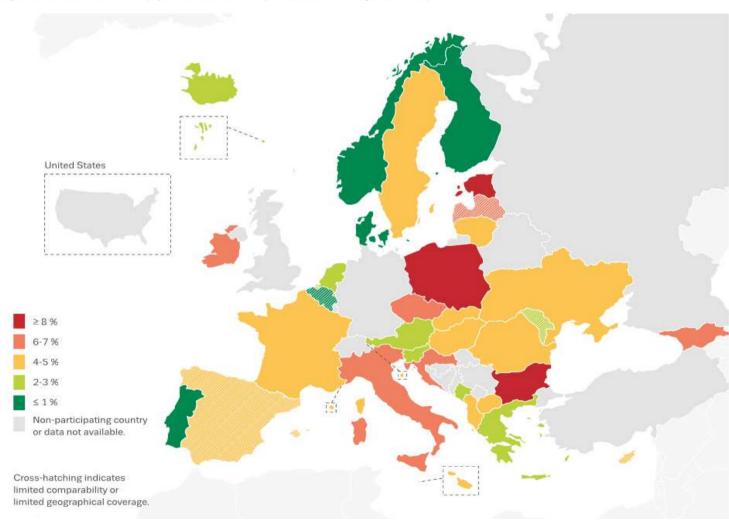


NB: Results of 5 054 emergency presentations in 15 sentinel sites in 9 European countries. Source: European Drugs Emergencies Network (Euro-DEN plus).



Prevalence data - ESPAD 2015

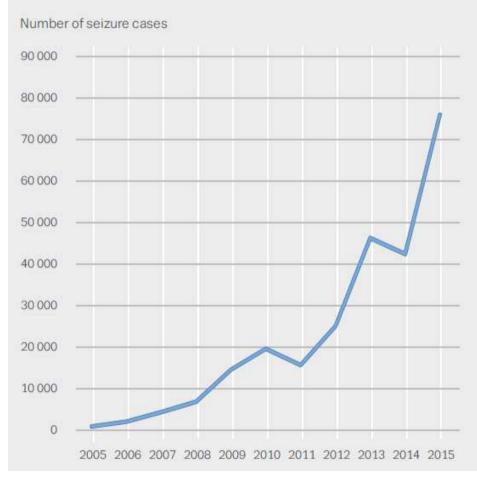
Figure 17a. Lifetime use of new psychoactive substances (NPS). 2015. Percentages. (Table 39)

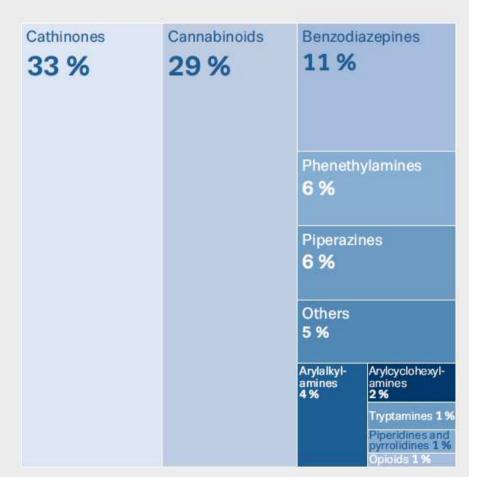




Seizures of new psychoactive substances

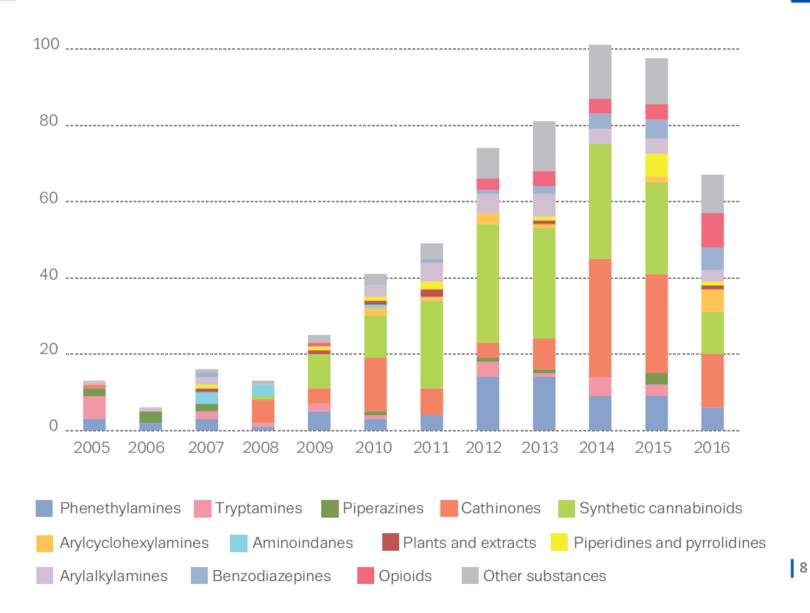
Number of seizures of new psychoactive substances reported to the EU Early Warning System: trends and distribution by category in 2015







First detections of NPS





How we define a new psychoactive substance?

Council Decision 2005/387/JHA

'a new narcotic or psychotropic drug that is not controlled by the United Nations drug conventions, but which may pose a public health threat comparable to that posed by substances listed in these conventions'

But what about NPS which have been recently controlled internationally?

Cathinones

Mephedrone

MDPV

Methylone (BK-MDMA)

Alpha-PVP

4-Methylethcathinone (4-MEC)

Ethylone

Pentedrone

Opioids

AH-7921

MT-45

Acetylfentanyl

U-47700

Butyrfentanyl

Synthetic Cannabinoids

JWH-018

AM-2201

MDMB-CHMICA

5F-APINACA (5F-AKB48)

XLR-11



Classification of NPS for the purposes of EW monitoring

Chemical family



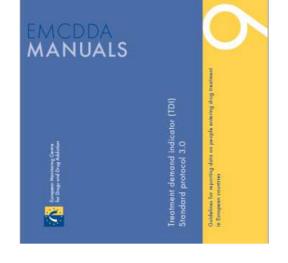


Classification of NPS for the purposes of EW monitoring

- Chemical family
- Mode of action
- Origin
- Other







Primary drug

by a therapist, commonly using international standard instruments (e.g. ICD-10; DSM-IV (5), ASI) or treatment. This is usually based on the request made by the clients and (or) on the diagnosis made clinical assessment. This them is of central importance and it should be collected for every client. The primary drug is defined as the drug that causes the client the most problems at the start of

Purpose

To identify the clients' primary drug problem, assessing their profile and trends over time in drug use patterns. This variable allows information to be kept on the most relevant problems for the drug users from an epidemiological point of view.

Inclusion criteria

Methodological considerations

The decision on the choice of a primary drug should be based on the diagnosis of the professional plus the request of the client.

data reporting included in the TDI protocol 2.0. A new variable on polydrug use is is now added The criteria to select the primary drug have not changed and are consistent with the criteria for to provide complementary information, but not as a replacement.

If the exact drug is not known (e.g. amphetamines or MDMA and derivatives), the generic category (e.g. Stimulants other than cocaine) should be recorded

The category 'Not known' should be used exceptionally,

- Tobacco
- All psychoactive medicines and drugs used exclusively for medical treatment under a medical prescription and according to medical practice.



Methodological specifications

Primary drug' is the drug that causes the most problems for the client, as defined according to the client's request and (or) the professional's assessment.

This item should always be filled in, regardless of whether a client is subsequently considered to have a polydrug use problem (that will be additional information).

other stimulants are separated), route of administration, or other scientific categorisations. Rather, Some new drugs are included in the Protocol. They are substances that have appeared in recent years in the drug market, and for which a non-trivial number of people has entered treatment for problems associated with their use. The classification does not follow a scientific classification of the substances according to their chemical principles or psychoactive effects (e.g. cocaine and a pragmatic classification is adopted, in order to help professionals working at drug treatment centres to record the data.

The substances included are only those which create problems to the client according to the client's request and the professional's assessment.

The grouping of drugs is not only done on the basis of pharmaceutical criteria but also considering the actual experience of drug professionals.

The insertion of fentanyl among primary drugs includes both the substance produced in the illicit Other opioids include all the opioids not included in the previous categories (e.g. Polish heroin). market and the medicinal product used outside the medical practice. Any specification on the primary substance should be included in the methodological comments.

The challenge of new fentanils

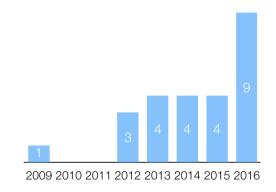
2017 – detailed investigations on

- 1. Acryloylfentanyl
- 2. Furanylfentanyl
- 3. AB-CHMINACA
- 4. 5F-MDMB-PINACA
- 5. ADB-CHMINACA
- 6. CUMYL-4CN-BINACA
- 7. 4-Fluoroisobutyrylfentanyl
- 8. Tetrahydrofuranylfentanyl
- 9. Carfentanil

2014/2015

- 1. AH-7921
- 2. MT-45
- 3. Acetylfentanyl

Internationally controlled





Substances which will be reviewed at the 39th ECDD (6–10 November 2017)



12. Primary drug (7)

- 1. Opioids (total)
- 11 heroin
- 12 methadone misused
- 15 other opioids (please specify) 13 buprenorphine misused 14 fentanyl illicit/misused
- 2. Cocaine (total)
- 21 powder cocaine (HCI)
- 22 crack cocaine
- 23 others (please specify)
- Stimulants other than cocaine (total)
- 31 amphetamines
- 32 methamphetamines
- 33 MDMA and derivatives
- 34 synthetic cathinones
- 35 other stimulants (please specify)
- (7) Note that several substances in the list can be produced illicitly (e.g. fentanyl or some amphetamines) or diverted from legitimate sources. For the purpose of this protocol, both sources are included.

- 4. Hypnotics and sedatives (total)
- 41 barbiturates misused
- 42 benzodiazepines misused

43 G-B/GB

- 44 other hypnotics and sedatives misused (please specify)
- 5. Hallucinogens (total)
- 51 LSD

52 ketamine

- 53 other hallucinogens (please specify)
- 6. Volatile inhalants
- 7. Cannabis (total)
- 8. Other substances (total) (please specify which substance)
- 99. Not known.

		Fentanyl	Synthetic			Total clients all
		illicit/misused	catyhinones	GHB/GBL	Ketamine	drugs
	Austria	0	2	2	1	4400
	Belgium	16	14	364	34	25588
	Bulgaria	0	0	0	0	2131
	Croatia	1	0	0	0	7537
Nives la su se	Cyprus			2		798
Number of	Czech Republic		0			10108
	Denmark					6275
	Estonia	202				282
clients	Finland	2	11	3	0	656
	France	62	27	26	21	62213
	Germany					87256
entering	Greece	0	0	0	0	4087
	Hungary	0	0	0	0	4308
	Ireland	2	31	10	4	9489
treatment	Italy			4	13	47213
treatment	Latvia	0	3	0	0	751
	Lithuania	0	0	0	0	2549
for NPS as	Luxembourg					290
	Malta					1829
	Netherlands	1	0	427	16	10987
	Norway					5908
PRIMARY	Poland	15	536	24	5	9013
	Portugal					3389
	Romania	0	2	0	3	3240
drug	Slovakia	30				2720
	Slovenia	0	0	0	0	316
	Spain	28	1	6	49	48926
	Sweden	4	5	5		37988
	Turkey	1		2		10884
	Uk	17	1441	155	232	124234
	Total	381	2073	1030	378	535365
	% of clients	0.07	0.39	0.19	0.07	0.72



						Clients with known primary
	Country	Fentanyl	Synthetic cathinones	GHB/GBL	Ketamine	drug
	Austria	0	2	2	1	3640
	Belgium	8	7	182	17	11698
	Bulgaria	0	0	0	0	1804
	Croatia	1	0	0	0	7537
Number of	Cyprus			2		797
	Czech Republic		0			10090
	Denmark					4705
clients	Estonia	202				282
Circinto	Finland	2	11	3	0	656
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<u>SECONDAINT</u>	Poland	15	536	24	5	9013
drug	Portugal	-				2756
	Romania	0	2	0	3	3240
	Slovakia	30	_	-		2503
	Slovenia	0	0	0	0	316
	Spain	28	1	6	49	48926
	Sweden	4	5	5		37742
	Turkey	1	_	2		10884
	Uk	17	1441	_ 155	232	120294
**	Total sec.drugs	373	2066	848	361	500507
	% secundary	3/3	2000	040	301	300307
	drug	0.07	0.41	0.17	0.07	
	urug	0.07	0.41	0.17	0.07	

Issues and proposals

Current NPS (or old NPS) coding in TDI:

- Synthetic cathinones —— Stimulants other than cocaine

- GHB/GBL — Hypnotics and Sedatives

- Fentanyl illicit/misused Opioids

- Synthetic cannabinoids Others, Cannabis, Stimulants, ???

- Others Others, ???

Proposal for new coding:

- Fentanils illicit/misused —> Opioids, to specify which fentanil

- Synthetic cannabinoids —— Add subcategory under Cannabis

- Others — Others, to specify which substance



Process

- Include an amendment to the TDI Protocol (note in the primary and secondary drug coding)
- Modify FONTE Template: add subcategory + change fentanyl illicit misuse to fentanils, specify
- Introduce new coding in data reporting 2018
 OR
- Conduct pilot data collection in interested countries and introduce new coding in data reporting in 2019

