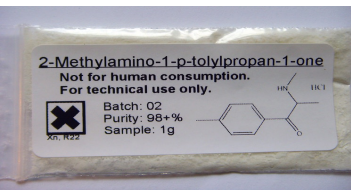


TWIST

Training With Stakeholders

Applying EU Addiction Research

Novel Psychoactive Substances & New Drug-taking Trends



Dr Paolo Deluca, PhD & Dr Andreas Kimergard, PhD
Institute of Psychiatry, Psychology & Neuroscience
King's College London



Day one - 24th		
11:30 - 13:00	STRUCTURED SESSION 2	TWIST SESSION ON NEW MONITORING TOOLS
	Early warning for new psychoactive substances (NPS) Chairs: David Wood, United Kingdom and Ana Gallegos, EMCDDA Auditorium IV The EU early warning system: 20 years of monitoring new psychoactive substances in Europe. Rachel Christie, EMCDDA – Viability of an early warning system (VIEWS) study: triangulation of data on drug use and harms in Australia. Amy Peacock, Australia – United States national drug early warning system (NDEWS): evolving drug early warning systems in a new world of drug production, distribution, and use. Erin Artigiani, United States – Detection and activity profiling of synthetic cannabinoids and their metabolites with a newly developed bioassay. Annelies Cannaeft, Belgium (EMCDDA 2017 Scientific Award) – The value of early warning: Carfentanyl - a case study. Helgi Danielsson, EMCDDA	
13:15 - 14:15	PAPER SESSION 7	
	New psychoactive substances (NPS) - a challenge for responses. Chair: Michal Miovský, Czech Republic Auditorium II – The German new psychoactive substance law (NPSG): perceived and expected outcomes in the first stage of implementation. Tessa-Virginia Hannemann, Germany – New psychoactive substances: current health-related practices and challenges in responding to use and harms in Europe. Alessandro Pirona, EMCDDA – Responses to the problem of 'legal highs' in Poland and their consequences. Krzysztof Krajewski, Poland	
14:30 - 16:00	PAPER SESSION 18	
	New psychoactive substances - trends and developments. Chair: Paul Dargatzis, United Kingdom Room 5A – New psychoactive substance use among regular psychostimulant users in Australia, 2010-2017. Rachel Sutherland, Australia – New trends in drug use in Germany? The use of new psychoactive substances and methamphetamine in five federal states. Elena Gomes de Matos, Germany – New psychoactive substances (NPS) in Portugal – trends and approaches. Susana Henriques, Portugal – Teenagers and NPS in Poland – attitudes and behaviors. Tomasz Bialko, Poland – French media and new psychoactive substances: is a new discourse emerging. Julie-Emilie Ades, France	

Day two - 25th			
11:00 - 12:30	STRUCTURED SESSION 20	STRUCTURED SESSION 22	TWIST SESSION ON NPS
	20 years of ESPAD: trends in adolescents' substance use and risk behaviours, what have we learnt? Chair: Julian Vicente, EMCDDA Auditorium III	Wastewater-based drug epidemiology of illicit drugs, new psychoactive substances and the misuse of medication as a supplement to traditional data-sources Chair: Barbara Kasprzyk-Hordern, United Kingdom Auditorium IV	
		- Detection of new psychoactive substances (NPS) use across Europe. Sara Castiglioni, Italy	
	- Understanding the use of NPS by European students in the context of polysubstance use. Harry Sumnall, United Kingdom		
12:45 - 14:15	PAPER SESSION 32		
	New methods. Chair: Lies Gremeaux, Belgium Room 1.08 - New perspectives for knowledge generation and exploitation using web surveys: the example of volume estimation in wastewater epidemiology. Robin Udrisard, Switzerland - High risk drug use and new psychoactive substances in Europe. Jane Mountney, EMCDDA - Innovations in online drug forum sentiment analysis to monitor new psychoactive substances: the case of 4-FA in the Netherlands. Matthijs Blankers, Netherlands - National estimation of the prevalence of problem drug use: revisiting and extending multiplier methods in a multi-parameter evidence synthesis framework. Hayley Jones, United Kingdom - Development of a national wastewater drug monitoring program in Australia. Jake O'Brien, Australia		
14:30 - 16:00	PAPER SESSION 41		TWIST SESSION ON NPS
	Responding in the prison setting Chair: Lars Møller, WHO Europe Auditorium VIII		
		- The use of NPS in prison in Europe: what do we know? Consequences and responses. Linda Montanari, EMCDDA	

NPS session - Structure

- 30 min – Overview on NPS (Prevalence, Policy Implications, Enforcement, and Treatment)
- 30 min – Small groups discussion
- 30 min – General discussion

Background

- Psychonaut 2002 (2002-2004)
- Psychonaut EWS (2008-2010)
- ReDNet (2009-2012)
- ALICE RAP (2011-2016)
- CODEMISUSED (2014-2016)
- CASSANDRA (2015-2017) – Computer Assisted Solutions for Studying the Availability and Distribution of novel psychoActive substances

<http://www.projectcassandra.eu>

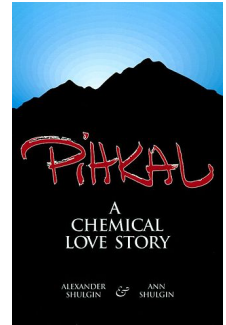
Definition

- UNODC: “substances of abuse, either in a pure form or a preparation, that are not controlled by the 1961 Single Convention on Narcotic Drugs or the 1971 Convention on Psychotropic Substances, but which may pose a public health threat”
- These include for example, Mephedrone, Spice, GBL, MDAI, Benzo Fury and Salvia divinorum, that are, or were when they emerged, not controlled by relevant drug legislation.
- Also known as “Legal Highs”

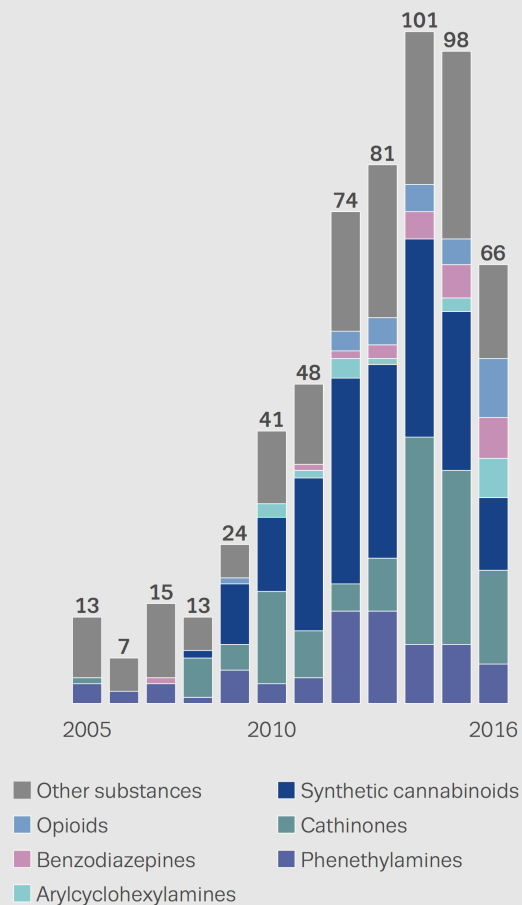


The phenomenon

- No new phenomenon, but increased availability and Internet are changing the face of the drug scene.
- MDMA, GHB, BZP, Salvia Divinorum, Magic Mushrooms
- In 1975 Shulgin, current drugs will be replaced with substitute compounds, which will provide society with new, unknown, and unmanageable substances.
- International
- Prevalently marketed and sold online as not for human consumption, plant feeder, pond cleaner, incense.



Number and categories of new psychoactive substances notified to the EU Early Warning System for the first time, 2005–16



NPS - Classification

Chemical structure:

- Phenethylamines
- Piperazines
- Cathinones
- Tryptamines
- Synthetic cannabinoids/alkylindoles (eg JWH... HU or AM..)
- Arylcyclohexylamines

Pharmacological and clinical effects

- Stimulant
- Entactogenic
- Hallucinogenic
- Anaesthetic
- Dissociative
- Depressant

What we know

- Very little!
- When a new product emerges there is no or almost no data in relation to their pharmacology, chemistry, toxicology or safety assessments.
- Forums, social media, Erowid, early experimenters
- Ad hoc surveys
- Animal/pre clinical and clinical studies will follow.

Prevalence of
use



The size of the problem

- General population surveys – British Crime Survey added some NPS eg Spice in 2009, and Mephedrone 2010...nitrous oxide and salvia in 2012/13
 - Last year use prevalence of 1.1% mephedrone in 2011/12 down from 1.4%, no change in 2013/2014
 - 4.4% in 16-24 yr-olds
 - Fourth most popular, after Cannabis (6.9%), Cocaine (2.2%), and Ecstasy (1.4%)
 - Other NPSs at 0.1%, and Spice at 0.2%
 - 2.3% Nitrous Oxide and 0.5% Salvia in 2013/14 (16-59, higher in 16-24)
 - Mephedrone top ten drugs of misuse for telephone enquires in TOXBASE in 2013/14 (National Poisons Information Service)
- Mixmag/GDS – 41% in 2009, 51% in 2010, 20% in 2011, 7.9% in 2013
- Club surveys – 41% in 2011

The size of the problem (2)

- Treatment demand data
 - NTA/NDTMS – No separate entry for NPS on the database in previous years. Mephedrone: 1400 in 2013. 3000 in 2015 (1% of those in treatment).
 - All NPS: 1154 in 2015, 1500 in 2016
 - ≈900 individuals presenting to treatment for mephedrone in 2011/12 at the Club Drug Clinic
 - A&E presentations, but UK data not available
- Mortality data (from npSAD and ONS)
 - Relatively low numbers of deaths where NPSs have been mentioned. Eg only two where only mephedrone was mentioned (2011), 1 in 2012
 - 86 reported the presence of mephedrone was mentioned (2011), 13 in 2012.
- Any NPS: 31 (2011), 55 (2012), 63 (2013), 82 (2014), 114 (2015)
- Any Drug: 3674 (2015), increasing year on year (e.g. 2652 in 2011).
- NPSs availability: Online, headshops, festivals, friends, drug dealers

Policy
implications



Policy implications

- Catching up with new compounds
- Consumer safety legislation
- Food safety legislation
- Medicinal product legislation
- Germany – Medicinal products – Challenged by ECJ in 2014
- Poland – Blanket approach (2010) via health protection law
- Ireland – Blanket ban (2014)
- New Zealand – PSA 2013 – Blanket ban
- UK - NPS and actions to tackle their use were part of the 2010 Drug Strategy.
 1. 2011 - Creation of Temporary Class Drug Order
 2. 2016 – Psychoactive Substances Act

Temporary Class Drug Order (TCDO)

A TCDO can be placed on a drug if the drug is not already controlled under the Misuse of Drugs Act (as a Class A, B or C); and the Home Secretary has received a recommendation from the Advisory Council of the Misuse of Drugs that the order should be made, on the basis that:

- a. the drug is being, or is likely to be, **misused** ; and
- b. misuse is having, or is capable of having, **harmful** effects.

A TCDO will come into immediate effect and last for up to 12 months

A TCDO will hold the same offences as those under the Misuse of Drugs Act with the exception of the possession offence.

Psychoactive Substances Act 2016

The 2016 Act makes it an offence to: produce; supply; offer to supply; possess with intent to supply; import or export a psychoactive substance.

A psychoactive substance is a substance which is capable of producing a psychoactive effect in a person who consumes it and is not an exempted substance. A person consumes a substance if the person causes or allows the substance, or fumes given off by the substance, to enter the person's body in any way.

Exempted substances include:

- a) Controlled drugs (within the meaning of the Misuse of Drugs Act 1971);
- b) Medicinal products;
- c) Alcohol;
- d) Nicotine and tobacco products;
- e) Caffeine; and
- f) Food

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ISI 8 gram Soda Chargers - Case of 500 (50 packs of 10 ISI chargers)
★★★★★ 1
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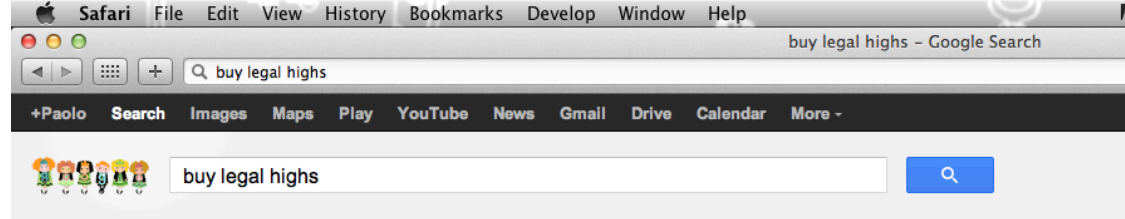
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Name: Mad Cat

Also Know as: Green CAT, The Dog's CAT, Mad-Cat, Madcat.

Please Note - This substance is NOT Mephedrone / MCAT / 4MMC

Please note- madcat does vary in colour from batch to batch, it goes from yellow to green and even blue.

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, Ideal for retailers.

This Product is Hazardous and Not for Human Consumption!



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Banshee Dust 1g bags

Name: Banshee Dust

Description: White powder research chemical.

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YPDout 1g bags

Name: YPDout

Description: White powder research chemical.

Buy this product here in handy 1g bags.

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Alchemy 1g bags

Name: Alchemy

Description: White powder stimulant with numbing effect. Contains no substances which are banned in the U.K..

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in



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Silly Walk 1g bags

Name: Silly Walk

Description: very strong, very mad! Contains no substances which are banned in the U.K..

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.



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R2-D2 1g bags

Name: R2-D2

Description: Mephedrone substitute.

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.



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1g=£20.00 X 1 Add to Cart

Benzo Fury 1g bags

Name: Benzo Fury / (6-APB)



Also Know as: 1-benzofuran-6-ylpropan-2-amine.

Description: 6-APB is currently Legal in the UK.

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.



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Chang 1g bags

Name: Chang

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Poke 1g bags

Name: Poke

Description: White powder research chemical.

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Purple Bomb Pill

Name: Purple Bomb Pill



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Sectioned 1g Bags

Name: Sectioned

Description: Purple powder research chemical.

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0.5g=£15 X 1 SORRY OUT OF STOCK

Rush 1g bags

Name: Rush

Description: White powder research chemical.

Buy this product here in handy 1g bags.



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WTF! 1g bags

Name: W.T.F!

Description: white crystal research chemical.

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.



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0.5g=£12 X 1 **Add to Cart**

5 APB 1g bags

Name: 5 APB

Description: 5-APB Direct From Europes Best Source of 5-APB

Tan Powder Form, 30% Stronger than 6-APB Only 100mg Enough For One Lab Test

5-APB is variant of the research chemical 5-APDB developed in the 1990s by David E. Nichols whilst investigating non-neurotoxic MDMA analogues.

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.



Drop menu below for bulk discounts.

0.5g=£20 X 1 **SORRY OUT OF STOCK**

Cogaine 1g bags

Name: Cogaine

Description: White powder research chemical.

Buy this product here in handy 1g bags.



Dusk Till Dawn 1g bags

Name: Dusk Till Dawn

Description: White powder research chemical.

Buy this product here in handy 1g bags.



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China White 1g bags

Name: China White

Description: White powder research chemical.

Buy this product here in handy 1g bags.



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Blow 1g bags

Name: Blow

Description: White powder research chemical.

Buy this product here in handy 1g bags.



5-MAPB Pellets

Name: 5-MAPB Pellets

Also Know as: 1-(2-benzofuran-5-yl)-N-methylpropan-2-amine

5-MAPB is a new compound from the benzofuran family.

It is the N-methyl analogue of 5-APB and provides a fertile ground for new laboratory research into the 2-alkylaminobenzofurans.

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1 = £12.00 X 1 **Add to Cart**

5 IAI 1g bags

Name: 5 IAI

Also Know as: 5-Iodo-2-aminoindane.

Description: White powder stimulant which acts as a releasing agent of serotonin, norepinephrine, and dopamine. It was developed in the 1990s by a team led by David E. Nichols at Purdue University. 5-IAI fully substitutes for MDMA in rodents and is a putative entactogen in humans. Contains no substances which are banned in the U.K..

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.

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1g = £15.00 X 1 **SORRY OUT OF STOCK**

MDAI 1g bags

Name: MDAI (5,6-Methylenedioxy-2-aminoindane)

Description: MDAI is a drug developed in the 1990s by a team led by David E. Nichols at Purdue University. It acts as a non-neurotoxic and highly selective serotonin releasing agent (SSRA) in vitro and produces entactogen effects in rats.

Buy this product here in handy 1g bags. Each bag comes wrapped in a folded colour card shown in picture, ideal for retailers.



5 MeO-DALT Pellets

Name: 5-MeO-DALT Pellets



Also Know as: N,N-diallyl-5-methoxytryptamine

5-MeO-DALT or N,N-diallyl-5-methoxytryptamine is a psychedelic tryptamine first synthesized by Alexander Shulgin.

2=£12.00



X

1



Add to Cart

Mumbo Jumbo Incense 1g bags

Name: Mumbo Jumbo Incense

This Product is Hazardous and Not for Human Consumption!



Drop menu below for bulk discounts.

1g=£10.00



X

1



Add to Cart

Chronic Haze incense

Name: CHRONIC HAZE incense

Also Know as: CHRONIC HAZE incense has been in development for over 6 months, the final product is finished and on sale today The blend is highly sought after and is legal in all countries

This Product is Hazardous and Not for Human Consumption!



Consumption!



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Clockwork Orange Incense (NEW!)

Name: Clockwork Orange Herbal Incense

This Product is Hazardous and Not for Human Consumption!



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We withhold the right to refuse sale of any of our research chemicals to any customer attempting to buy Benzo Fury, 5-Meo-Dalt, Pyrazolam, Etizolam, Methiopropamine, AMIT or any other of our products if we even have the slightest inclination that they may be misusing them. Before purchasing any research chemical please ensure you have access to capable apparatus to handle and carry out experiments with hazardous chemicals. Always adhere to standard lab practices: avoid contact with skin and eyes. If any research chemical is ingested for any reason, seek medical advice immediately.

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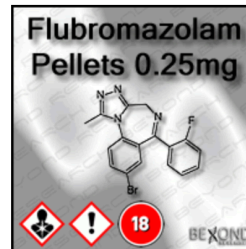
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LATEST NEWS

- MPA / Methiopropamine to be banned Friday 27th
- Early cut off time (Wednesday 28th October) 2pm.

Market changes...

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Our email: sylvester008@safe-mail.net

Send us PGP ENCRYPTED emails ONLY. We suggest you save our email in case the market goes down, we can still be in contact and make business.

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Items are shipped from central The Netherlands to EU countries ONLY every day from Monday to Friday. Shipping time is between 2 and 5 days. Once you receive the products, please finalize the order as soon as possible.

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Screenshots from cryptomarkets
AlphaBay, T*cka and Valhalla

Cryptomarkets

	Oct 2015	Dec 2015	Feb 2016	Apr 2016
ALL NPS				
Cryptomarket leader (no. of vendors selling NPS)	Abraxas (88)	Nucleus (84)	AlphaBay (96)	AlphaBay (122)
Total no. of vendors selling NPS	212	214	233	256
Total no. of unique NPS advertised	94	119	158	161
Total no. of vendors selling NPS alone or with prescription drugs	107	98	88	108
Total no. of NPS listings	759	840	958	1187
Leading NPS category	Phenethylamines	Cathinones	Phenethylamines	Cathinones
UNCONTROLLED	(% of total number of NPS)			
Total no. of uncontrolled NPS sold	26 (27.7)	37 (31.1)	46 (29.1)	45 (28)
Total no. of uncontrolled NPS listings	142 (18.9)	185 (22.0)	243 (25.4)	303 (25.5)
Leading uncontrolled NPS category	Synthetic cannabinoids	Synthetic cannabinoids	Synthetic cannabinoids	Synthetic cannabinoids

Online purchases

- Online market growing, but difficult to estimate.
 - Psychoanet 2002 -> 90 online vendors
 - EMCDDA – in 2012 identified 690 online shops (170 in 2010)
 - Dark web – Silk Road, Black Market Reloaded etc.
- Global Drug Survey 2015 shows more people buying online than ever before, 1 in 10 with 25.3% having done so for the first time in the past year (2014).
- British Crime Survey (2014), Only 1% of adults who had used drugs in the last 12 months sourced the last drugs they took from the Internet

Treatment



Scottish Government
Riaghaltas na h-Alba
gov.scot

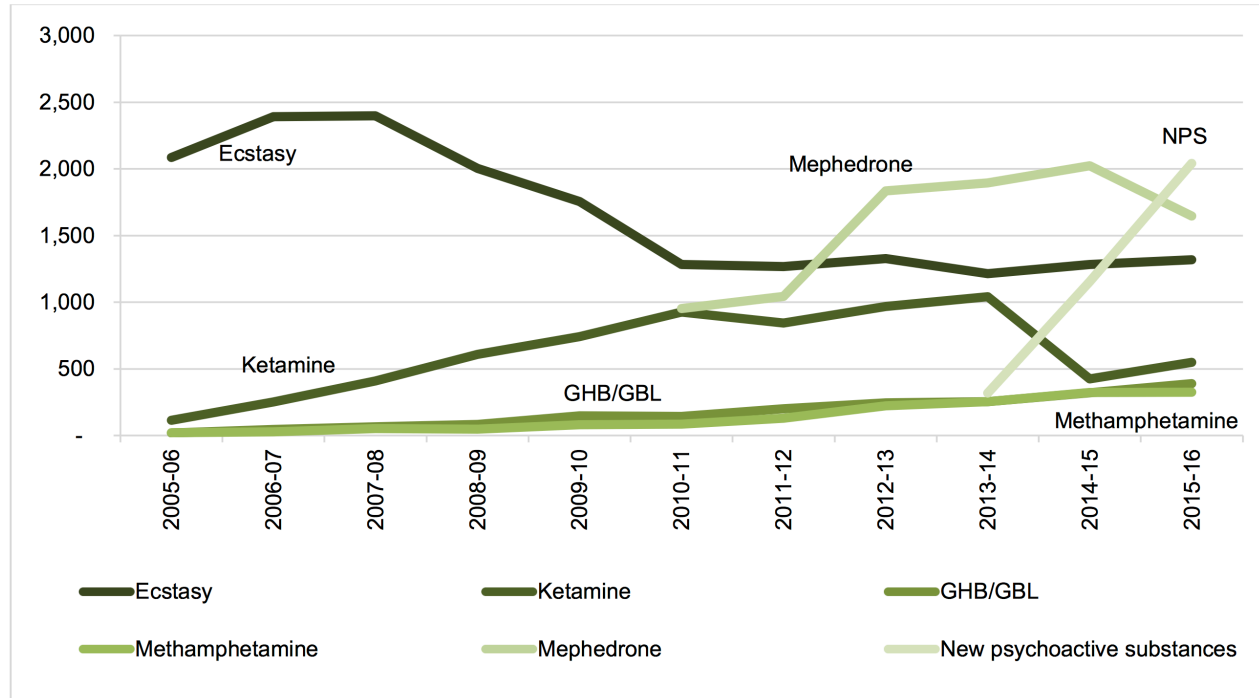
Drug misuse and dependence

UK guidelines on clinical management

Key points

- It is important that drug services maintain a broad competence in the use of club drugs and new psychoactive substances (NPS).
- Drug services need to consider their competencies in working with relevant diverse cultures and in attracting those affected (e.g. younger people and some in the LGBT community).
- Regular updating of staff knowledge is required particularly concerning new acute or chronic harms.
- Closer working and joint training with acute and emergency departments and sexual health services, where individuals with such problems may present, can be appropriate for some drug services or staff.

Treatment access



Clinical management

- NPS drugs are, however, essentially simply variants of the established psychoactive drug types (stimulants, depressants, hallucinogens/psychedelics) or of other known drug types such as dissociative anaesthetics.
- Treatment interventions for the management of dependence on NPS are essentially the same as for any other problem substances, using psychosocial interventions (and pharmacological support if appropriate)

Acute management

- Often identity of NPS is unknown
- In most cases of intoxication patients be discharged from A&E after a short period dedicated to observation, monitoring, supportive care and symptomatic treatment.
- Benzodiazepines are indicated as the best way of controlling psychomotor agitation, aggression, anxiety, seizures.
- Antipsychotics are a possible alternative in combating agitation, psychosis and hallucinations.
- Anti-emetics may be considered for nausea and vomiting

Small groups discussion

1. Prevalence of use/reasons of use
 - There are many different NPS on the market – discuss the difficulties that may be encountered when assessing the risks to users.
2. Policy implications
 - Should NPS be controlled under new 'NPS legislation', under existing drug laws or controlled at all?
3. Enforcement
 - The emergence of NPS is a global phenomenon - discuss how national and international law enforcement agencies can address the manufacturing and supply of these drugs.
4. Treatment options & Prevention strategies
 - Discuss how existing types of treatment, prevention and harm reduction drug interventions can be applied to users of NPS. Is this what users want?

TWIST Trainees - feedback

Please remember to give feedback on this session through:



- **TWIST app**
- online feedback form: bit.ly/2x8O9F5

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