

NUOVE SOSTANZE PSICOATTIVE STIMOLANTI

17 DICEMBRE 2019

ORDINE DELLE PROFESSIONI INFERMIERISTICHE DI BRESCIA

DR ATTILIO NEGRI

SCUOLA DI SPECIALIZZAZIONE IN FARMACOLOGIA E TOSSICOLOGIA CLINICA

UNIVERSITÀ DI MILANO

CATINONI

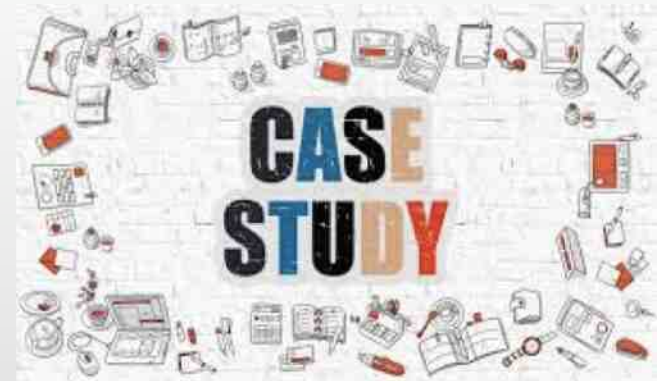
FLAKKA

THC SINTETICI
K2 e SPICE

AMMINE PSICOATTIVE
AYAHUASCA

2013, MILANO

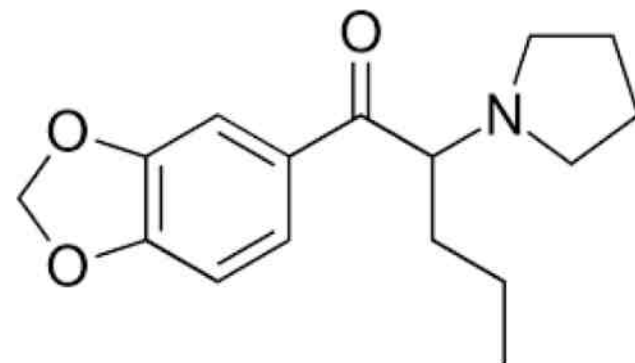
- MASCHIO, 27 ANNI, ORIGINARIO PROVINCIA NAPOLI
- GRAFICO DIGITALE PER BRAND DI MODA
- MSM
- HIV + IN TERAPIA ANTIRETROVIRALE
- PREGRESSO USO DI THC IN ADOLESCENZA
- ATTUALE USO DI BENZODIAZEPINE PRESCRITTE DA MMG, SERTRALINA PRESCRITTA DA PSICHIATRA
- ACCEDE A SERVIZIO DI DIAGNOSI E CURA PER DIPENDENZE PER DISTURBO DA USO DI COCAINA (IN REMISSIONE) E STIMOLANTI...



2013, MILANO

<i>Analisi</i>	<i>Risultato</i>	<i>Unita' di misura</i>	<i>Intervallo di riferimento</i>	
U-Amfetamine/Metamfetamine	Al di sotto del limite di cut-off	ng/mL	500 ng/mL (Valore accettato di cut-off)	(immunochimica)
U-Tetraidrocannabinoli	Al di sotto del limite di cut-off	ng/mL	50 ng/mL (Valore accettato di cut-off)	(immunochimica)
U-Oppiacei Totali	Al di sotto del limite di cut-off	ng/mL	300 ng/mL (Valore accettato di cut-off)	(immunochimica)
U-Cocaina Metaboliti	Al di sotto del limite di cut-off	ng/mL	300 ng/mL (Valore accettato di cut-off)	(Immunochimica)
U-Barbiturici	Al di sotto del limite di cut-off	ng/mL	300 ng/mL (Equivalenti di Secobarbital; valore accettato di cut-off)	
U-Benzodiazepine (Screen)	100	ng/mL	100 ng/mL (Equivalenti di nordiazepam valore accettato di cut-off)	Tipologia A

METHYLENEDIOPYROVALERONE (MDPV)



MDPV

Buy MDPV from GET-RC .

We constantly do update our product range with new research chemicals, SARMS, SERMs, peptides, nootropics and natural extracts.

ATTENTION: MDPV AND OTHER THE PRODUCTS WE OFFER ARE INTENDED FOR LABORATORY RESEARCH USE ONLY. NOT FOR HUMAN CONSUMPTION. PLEASE READ OUR [LEGAL](#) DISCLAIMER PRIOR ORDERING.

SKU mdpv

Add to Wish List Add to Compare E-mail

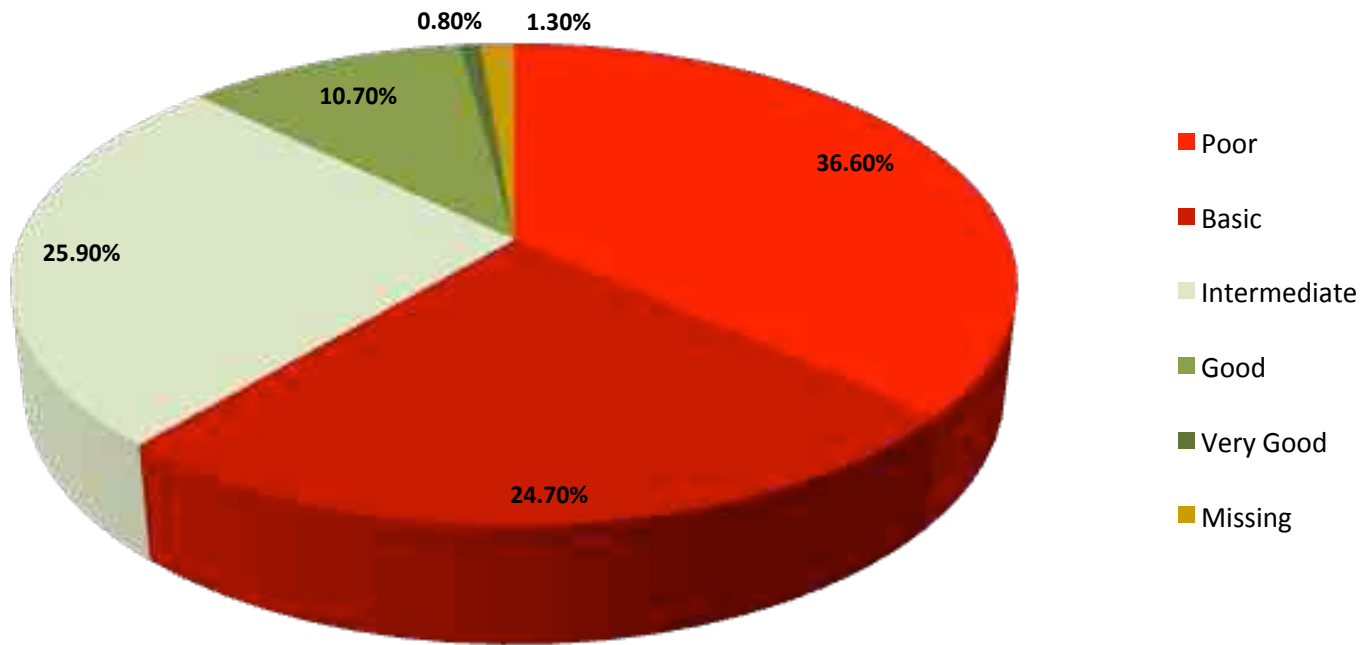
METHYLENEDIOXYPYROVALERONE (MDPV)

- STIMOLANTE (CLASSE: CATINONI SINTETICI)
- SVILUPPATO DA BOHERINGER NEI '60, PRIMI REPORT DI ABUSI NEL 2004
- ASSUNTO PER VIA ORALE, FUMATO, EV
- EFFETTI ACUTI: EUFORIA, DISINIBIZIONE, TACHICARDIA, IPERTENSIONE; REPORT DI ATTACCHI DI PANICO E PSICOSI
- EFFETTI A LUNGO TERMINE: ?
- RILEVAMENTO IN MATRICI BIOLOGICHE: GC/MS O LC/MS CON APPOSITI STANDARDS



NPS

Level of knowledge about "legal highs"
(5 point Likert 's scale)



SIMONATO ET
AL. (2013)
*HUMAN
PSYCHOPHARMACOLOGY*
: *SPECIAL ISSUE*, JUL,
28(4): 324-31

NPS

DI COSA PARLIAMO?

- **N**OVEL
- **P**SYCHOACTIVE
- **S**UBSTANCES



NPS

... AKA “DESIGNER DRUGS”, “LEGAL HIGHS”, “RESEARCH CHEMICALS”, “HERBAL HIGHS”...



Contents lists available at SciVerse ScienceDirect

International Journal of Drug Policy



Herbal Highs: Review on Psychoactive Effects and Neuropharmacology

Viewpoint

‘Legal highs’ an inappropriate term for ‘Novel Psychoactive Drugs’ in drug prevention and scientific research

A snapshot of novel psychoactive substances (legal highs) use in London

Ornella Corazza^{a,b}, Zsolt Demjén

TOXICOLOGY INVESTIGATION

Designer drugs: Review and for emergency management

“Bath Salts” and “Plant Food” Products: the Experience of One Regional US Poison Center

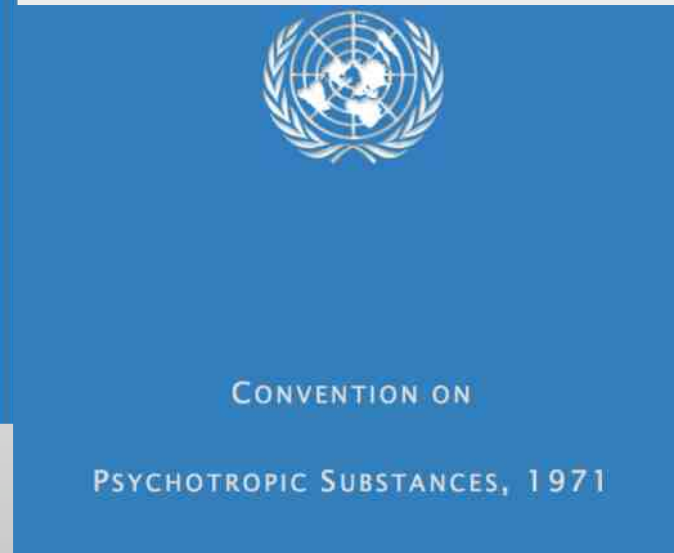
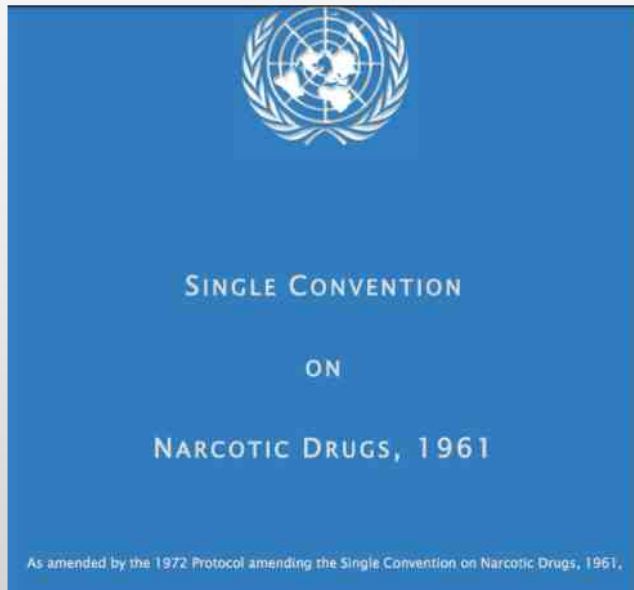
NPS

- **UNODC** (UNITED NATIONS OFFICE ON DRUGS AND CRIME), 2015: «OGNI SOSTANZA CON PROPRIETÀ PSICOATTIVA **NON ANCORA CLASSIFICATA NÉ CONTROLLATA DALLE CONVENZIONI DELL'ONU**, INDIPENDENTEMENTE DAL MOMENTO IN CUI È STATA SINTETIZZATA O DA QUANTO TEMPO VENGA UTILIZZATA PER ALTRI SCOPI, ANCHE LECITI»
- **EMCDDA** (EUROPEAN MONITORING CENTRE FOR DRUGS AND DRUG ADDICTION), 2015: «OGNI NARCOTICO O SOSTANZA PSICOTROPA, IN FORMA PURA O IN PREPARAZIONE, CHE **NON SIA CONTROLLATA DALLE CONVENZIONI SULLE DROGHE DELLE NAZIONI UNITE**, MA CHE POSSA RAPPRESENTARE UNA GRAVE MINACCIA ALLA SALUTE UMANA AL PARI DELLE SOSTANZE CHE SONO STATE GIÀ ELENcate DA TALI CONVENZIONI»



CONVENZIONI INTERNAZIONALI

- **SINGLE CONVENTION ON NARCOTIC DRUGS (1961)**



**273
SOSTANZE**

- **CONVENTION ON PSYCHOTROPIC SUBSTANCES (1971)**

NPS: EPIDEMIOLOGIA

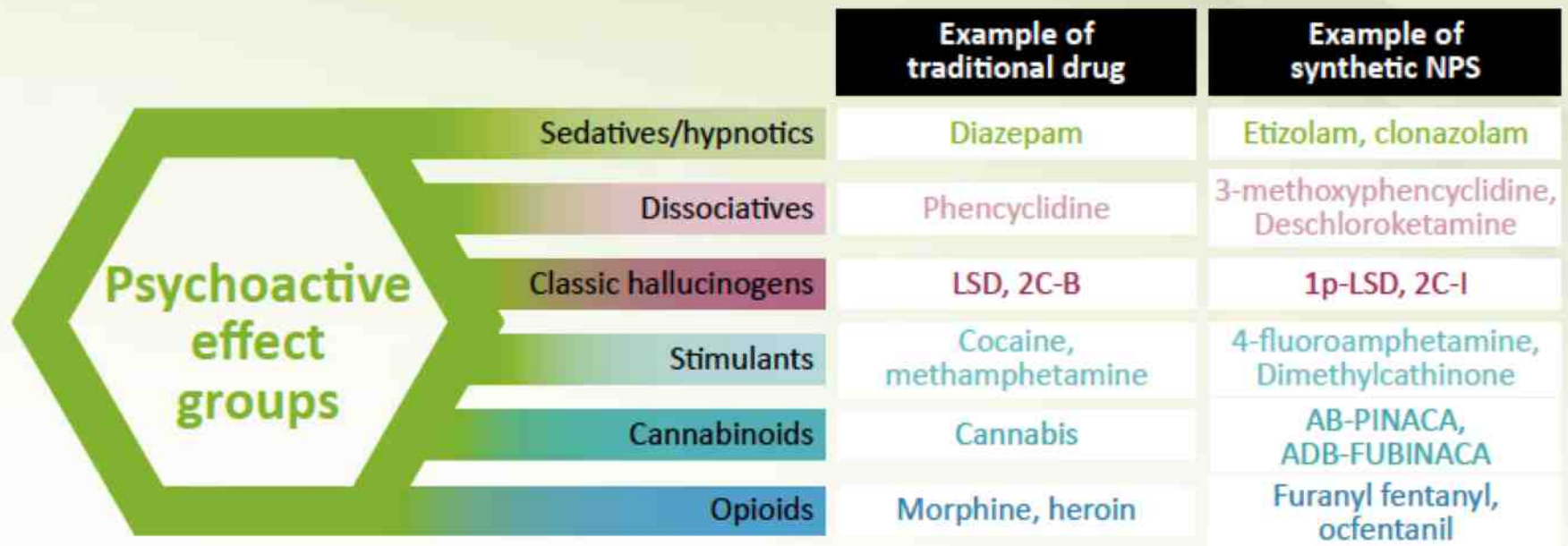
- 899 NPS INDIVIDUATE DA UNODC (2019)
- 670 NPS MONITORATE DA EMCDDA (2018)
- 693 SHOP ONLINE IDENTIFICATI
- GRANDE VARIETÀ DI SOSTANZE DIVERSE:
CANNABINOIDI SINTETICI, CATINONI SINTETICI,
ALLUCINOGENI, SIMIL-AMFETAMINICI, OPPIOIDI
- “ONDATE” SUCCESSIVE DI SOSTANZE DIVERSE



Psychonaut 2002 Project

NPS

Figure 1: Psychoactive effect groups of traditional drugs and NPS



	Example of traditional drug	Example of synthetic NPS
Sedatives/hypnotics	Diazepam	Etizolam, clonazolam
Dissociatives	Phencyclidine	3-methoxyphencyclidine, Deschloroketamine
Classic hallucinogens	LSD, 2C-B	1p-LSD, 2C-I
Stimulants	Cocaine, methamphetamine	4-fluoroamphetamine, Dimethylcathinone
Cannabinoids	Cannabis	AB-PINACA, ADB-FUBINACA
Opioids	Morphine, heroin	Furanyl fentanyl, ocfentanyl

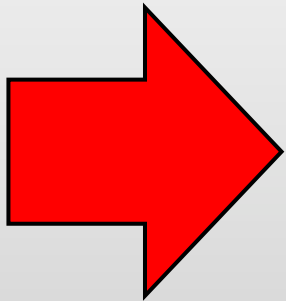
NPS

- FACILE SINTESI (LABORATORI CLANDESTINI)
- BASSO PREZZO
- COMMERCIALIZZAZIONE ONLINE / DARKWEB
- LEGISLAZIONE AGGIRATA DA NUOVE MOLECOLE
- NOMI COMMERCIALI AMBIGUI («LEGAL HIGHS», »BATH SALTS», «DESIGNER DRUGS» INCENSI ED ERBE AROMATICHE)
- VARIE MODALITÀ DI ASSUNZIONE (ORALE, INALATORIA, EV, IM)
- RISCONTRO IN MATRICI BIOLOGICHE COSTOSO E NON SEMPRE DISPONIBILE



NPS

- AMPIA DISPONIBILITÀ
- NUOVE COORTI DI UTENTI
- PERCEZIONE UTENTI
- PROFILO TOSSICOLOGICO?
- DIAGNOSI?



LA **DOMANDA** CREA L'**OFFERTA**?



NPS: EPIDEMIOLOGIA

Number of NPS reported by country, December 2018*

Number of substances reported



Source: UNODC Early Warning Advisory on NPS

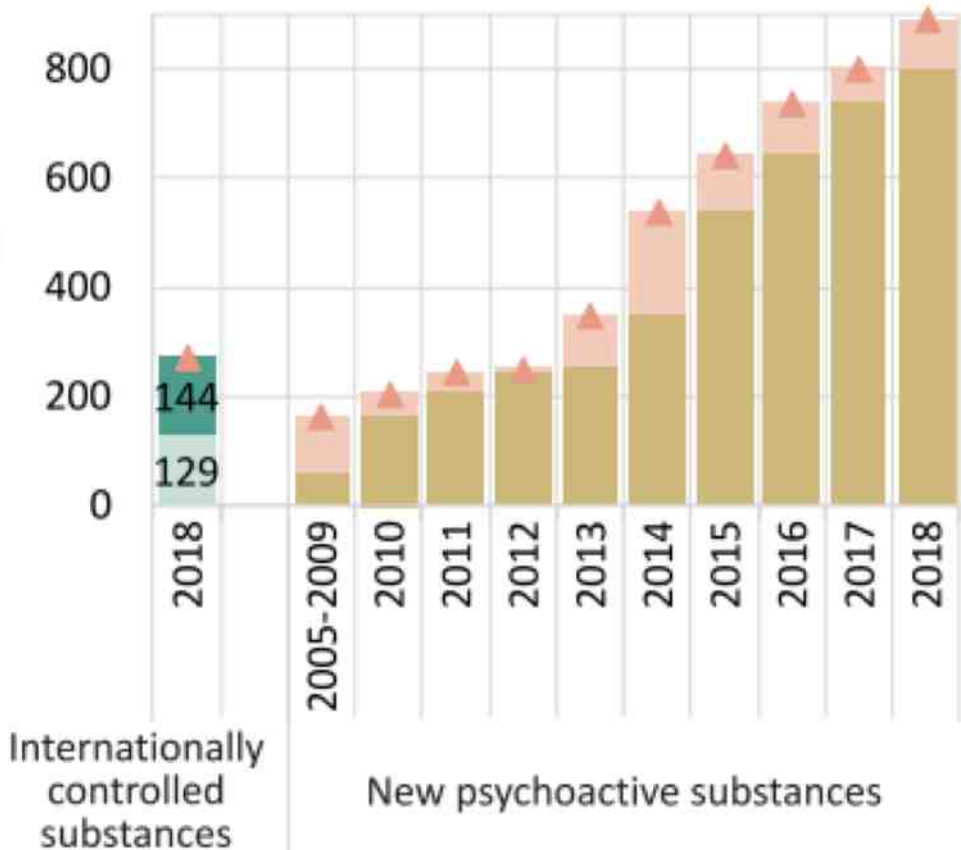
NPS: EPIDEMIOLOGIA

- NPS identified for the first time in current year
- NPS identified in previous years
- Psychotropic substances (1971 Convention)
- Narcotic drugs (1961 Convention)
- ▲ Total number of substances

Source: UNODC early warning advisory on new psychoactive substances.

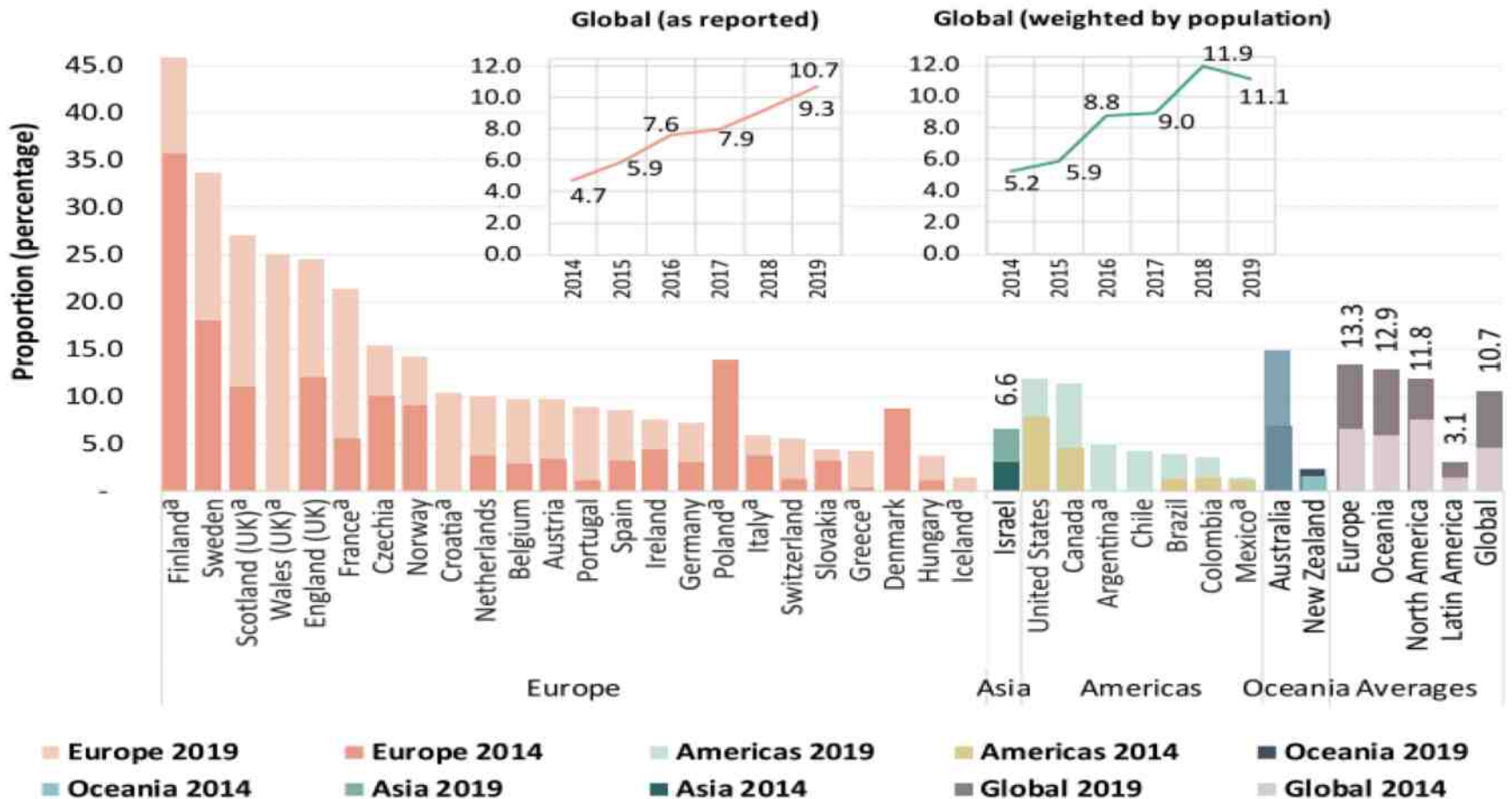
≈ **900** NPS
VS
273 SOSTANZE TABELLATE

FIG. 27 Internationally controlled drugs in 2018 and identified new psychoactive substances at the global level, 2005–2018 (cumulative)



NPS: EPIDEMIOLOGIA

FIG. 35 Proportion of surveyed Internet users using drugs (in the past year) who purchased drugs over the darknet, selected countries, 2014 and 2019



NPS: DARKWEB

The New York Times

Dark Web Drug Sellers Dodge Police Crackdowns

The notorious Silk Road site was shut down in 2013. Others have followed. But the online trafficking of illegal narcotics hasn't abated.



NPS: DARKWEB

Products of baileythom:






Name	Price	
BENZOS BRAND PFZER YELLOW/GREEN XANAX 2MG ROHYPNOL (FE) BENZOS BRAND PFZER YELLOW/GREEN XANAX 2MG ROHYPNOL ROCHE 2MG. For fast communication feedback and more details you can easily get to us via wicker = baileythom What'sapp = +1(832)377-7104 mail = baileythom03@gmail.com	฿ 0.068015 [0.068015 BTC]	From: <input type="checkbox"/> United States To: Worldwide
Buy 25g of Nembutal Powder Online (FE) Pentobarbital slows the activity of your brain and nervous system. Pentobarbital is used short-term as a sedative to treat insomnia, or to cause you to fall asleep for surgery. Pentobarbital is also used as an emergency treatment for seizures. For fast communication feedback and more details you can easily get ...	฿ 0.074816 [0.074816 BTC]	From: <input type="checkbox"/> United States To: Worldwide
Buy 70 Grams 3,4-DMMC Powder 99.9% Pure (FE) 3,4-Dimethylmethcathinone (hydrochloride) is a potential designer drug with combined features of amphetamines, cathinones, and phenethylamines. It is structurally related to 4-methylmethcathinone (4-MMC), a psychoactive compound that has been identified in products sold as bath salts and plant food. The physiological and toxicological properties of this compound have not been elucidated. This ...	฿ 0.074816 [0.074816 BTC]	From: <input type="checkbox"/> United States To: Worldwide
Top 150 currencies for sale euro usd GBP (FE) HIGH QUALITY UNDETECTABLE COUNTERFEIT BANKNOTES One stop premium solution to buy 100% high quality undetectable counterfeit money for sale like British pounds, US-Canadian dollars, Euro, Chinese Yuan, Danish krone & Buy Super Notes Undetectable Counterfeit USD EURO GBP and over 150 other currencies also available for sale. wicker = baileythom ...	฿ 0.088419 [0.088419 BTC]	From: <input type="checkbox"/> United States To: Worldwide
300 Pharma Grade Norco 10mg/400mg For \$900 (FE) 300 Pharma Grade Norco 10mg/325mg, wicker = baileythom What'sapp = +1(832)377-7104 mail = baileythom03@gmail.com	฿ 0.122427 [0.122427 BTC]	From: <input type="checkbox"/> United States To: Worldwide

**3-4 DMMC
(CATINONE SINTETICO)**

NPS: DARKWEB

ADDERALL (FARMACO ADHD)





Products of baileythom:

Name	Price
 \$6500 INSTANT AND FAST WESTERN UNION TRANSFER (FE) We offer valid transfers to : USA, UK, CA, AU, EU, ASIA and ANY NATION With MTCN + Sender details, you can pickup at any Western Union office within 48 hours OR depends on recipient. OFFERED SERVICES: \$500 for MTCN \$5000 (get MTCN vs Sender details) \$600 for MTCN ...	฿ 0.100000
 \$6500 INSTANT AND FAST WESTERN UNION TRANSFER (FE) We offer valid transfers to : USA, UK, CA, AU, EU, ASIA and ANY NATION With MTCN + Sender details, you can pickup at any Western Union office within 48 hours OR depends on recipient. OFFERED SERVICES: \$500 for MTCN \$5000 (get MTCN vs Sender details) \$600 for MTCN ...	฿ 0.100000
 4-CN-BINACA powder x 50 grams (FE) We are professionals experienced in selling all kinds of top quality drugs on the deep web. Safety is our top priority: every order gets taken care of very carefully. We always strive for long-term business! For fast communication feedback and more details you can easily get to us via wicker = ...	฿ 0.163236
 COLT GOVERNMENT MODEL 1911 DECORATED (FE) COLT GOVERNMENT MODEL 1911 DECORATED wicker = baileythom3@gmail.com Whatsapp = +1(832)377-7104 mail = baileythom3@gmail.com	฿ 0.27206 [0.27206 BTC]
 Skeletons of vital A and reptiles available (FE) we have skeleton of vital animals which can not be easily found in the world let us know the type of animal you need and we check in our warehouse and get back to you... For fast communication feedback and more details you can easily get to us via wicker = ...	฿ 0.163236 [0.163236 BTC]

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From United Kingdom Only To United Kingdom Only Verified Vendors Only Sort Recent Go

Name	Price	Vendor	Place
 Top Grade Adderall 30mg/20mg (30 Pills \$185) IR/XR Buy Top quality pharmacy grade Adderall 30mg and 20mg pills available at good prices. Pills are available in both INS... [Icons: Bitcoin, Euro, Pound, Dollar, Yen, Ruble, etc.]	฿ 0.025166 (0.025166 BTC)	U Pro ฿ 8,500, 500 - 1000 deals	From: United States To: Worldwide
 build Testosterone Enanthate WELCOME TO NUDDLES VENDORS PLATFORM (LEGIT4SURE) Wokr me: nuddlesvd Email: nvendors@protonmail.com?? We are...	฿ 0.027206 (0.027206 BTC)	nuddlesvendors ฿ 48,286, 50 - 100 deals	From: United States To: Worldwide
 build Testosterone Enanthate WELCOME TO NUDDLES VENDORS PLATFORM (LEGIT4SURE) Wokr me: nuddlesvd Email: nvendors@protonmail.com?? We are...	฿ 0.027206 (0.027206 BTC)	nuddlesvendors ฿ 48,286, 50 - 100 deals	From: United States To: Worldwide
 effective Testosterone Cypionate WELCOME TO NUDDLES VENDORS PLATFORM (LEGIT4SURE) Wokr me: nuddlesvd Email: nvendors@protonmail.com?? We are...	฿ 0.012243 (0.012243 BTC)	nuddlesvendors ฿ 48,286, 50 - 100 deals	From: United States

4-CN-BINACA (CANNABINOIDE SINTETICO)

NPS: DARKWEB

5. What is the Fentanyl / opiate policy?




In an effort to balance the medicinal need of chronic pain sufferers with the prevention of dangerous drug abuse, The Market takes a proactive approach to the real problem of drug overdoses by banning sales of the most dangerous and deadly drugs.

Banned Products:

No Fentanyl, Heroin, Crystal Meth, Crack, MDPV, DNP, Scopalamine or synthetic THC/spice.

No dumps, accounts, personal info, or CC#s.

Product Results

	Name	Price	Vendor	Place
	order MDPV powder x 100gr vwickr at legitsupply01 contact us on vwickr at legitsupply01 before placing an order buy MDPV online, Buy MDPV Online, Buy MDPV Online... Research Chemical [FE Required]	฿ 0.138172 (0.138172 BTC)	legitsupply 100,000, 1000 - 3000 deals	From: United States To: Worldwide
	order MDPV powder x 10gr vwickr at legitsupply01 contact us on vwickr at legitsupply01 before placing an order buy MDPV online, Buy MDPV Online, Buy MDPV Online... Research Chemical [FE Required]	฿ 0.055269 (0.055269 BTC)	legitsupply 100,000, 1000 - 3000 deals	From: United States To: Worldwide
	23b-PVP x 1000 grams vwickr at legitsupply01 contact us on vwickr at legitsupply01 before placing an order 23b-PVP for sale, Buy 23b-PVP Online, Buy 23b-PVP Online... [FE Required]	฿ 0.082903 (0.082903 BTC)	legitsupply 100,000, 1000 - 3000 deals	From: United States To: Worldwide

NPS: CLASSIFICAZIONE

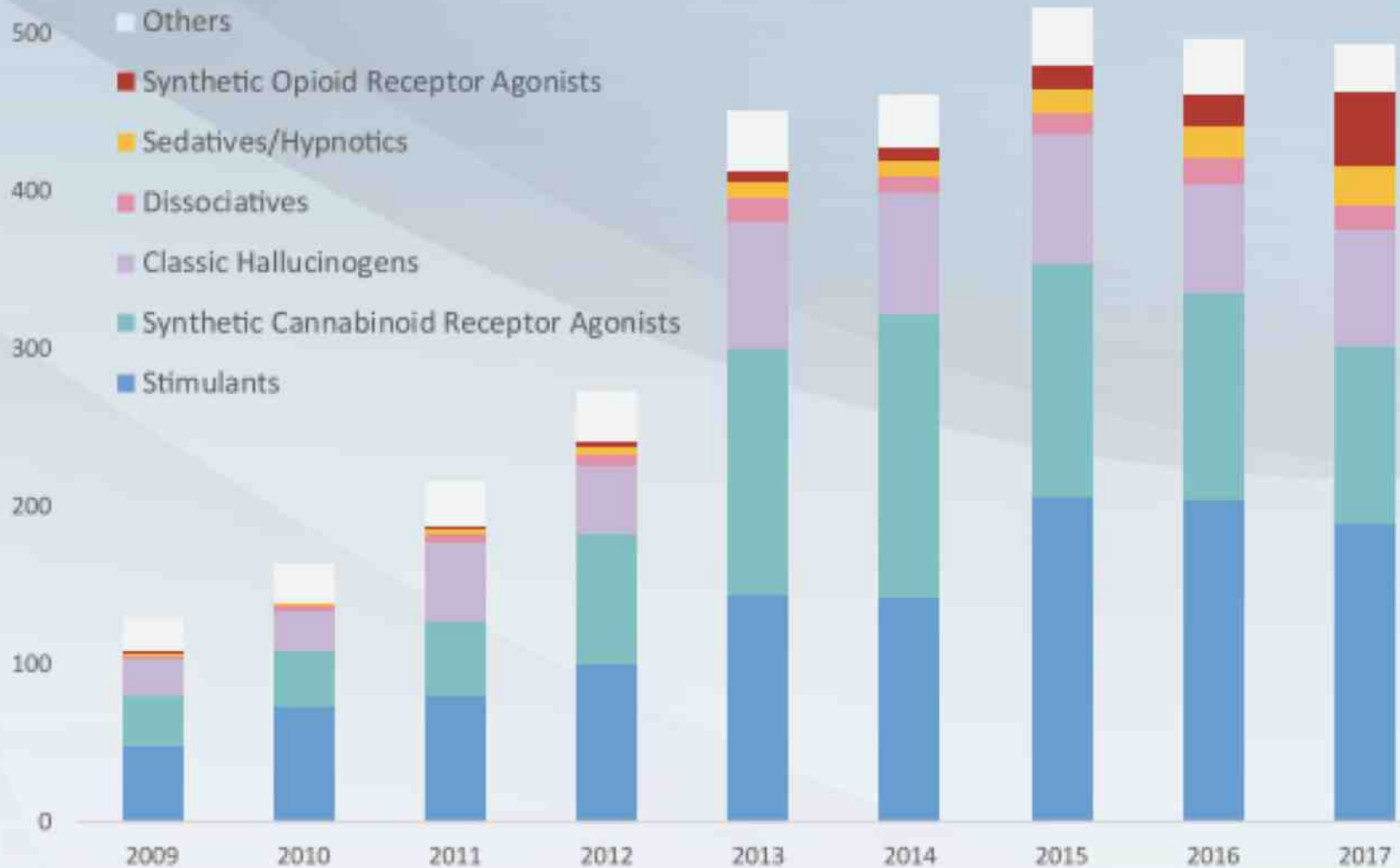
CHIMICA:

- FENILETILAMINE (MDMA, BROMO-DRAGONFLY)
- PIPERAZINE (N-BENZYLPIPERAZINA – BZP)
- TRIPTAMINE (DIMETILTRIPTAMINA - DMT)
- CATINONI SINTETICI (MEFEDRONE, METILONE)
- ALCHILINDOLI (SCRAs)
- ARILCICLOEXILAMINE (KETAMINA, PCP)

FARMACOLOGICA:

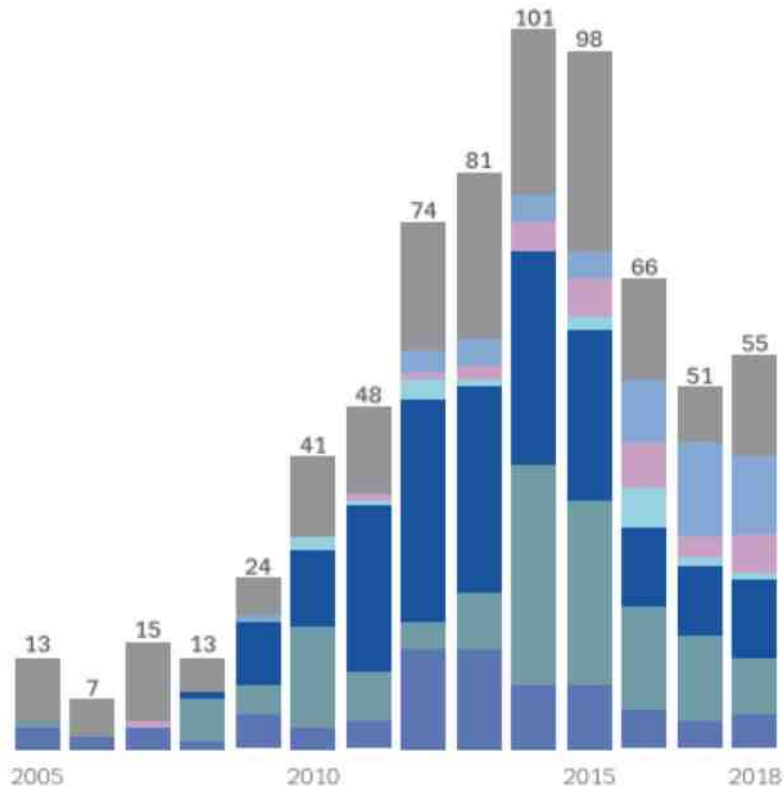
- STIMOLANTI
- CANNABINOMIMETICI
- SOSTANZE PSICHEDELICHE
- DISSOCIATIVI
- SEDATIVO-IPNOTICI

NPS: EPIDEMIOLOGIA



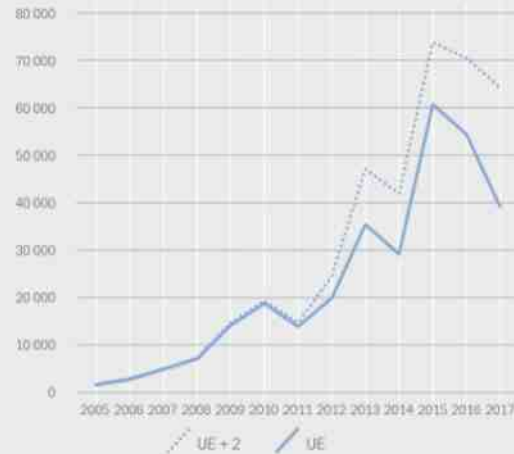
NPS: EPIDEMIOLOGIA

Numero e categorie delle nuove sostanze psicoattive notificate per la prima volta al sistema di allerta precoce dell'UE (2005-2018)

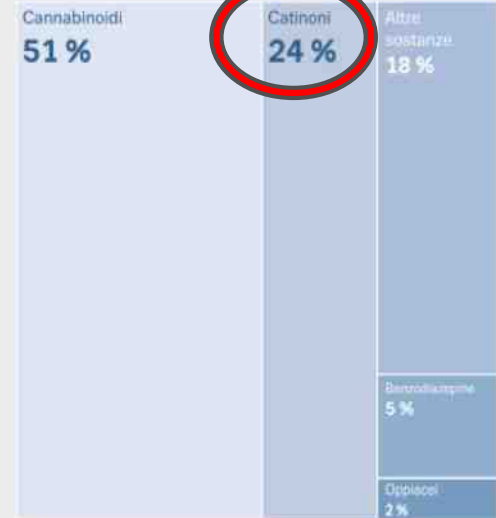


Sequestri segnalati al sistema di allerta rapido dell'UE: tendenze nel numero totale di sequestri e nel numero di sequestri per categoria nel 2017

Numero di singoli casi



NB: dati relativi agli Stati membri dell'UE più Turchia e Norvegia.

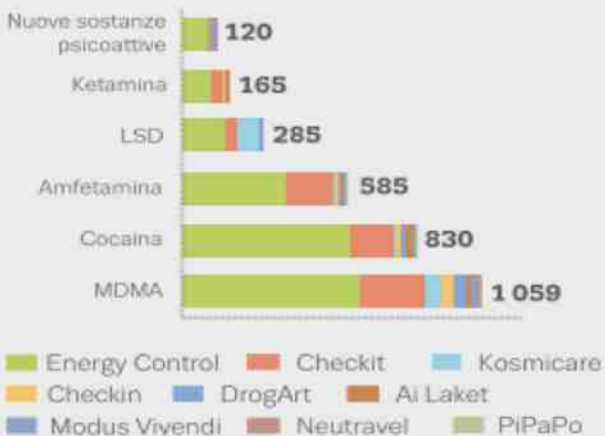


- Altre sostanze
- Oppiacei
- Benzodiazepine
- Anilcicloesilamine

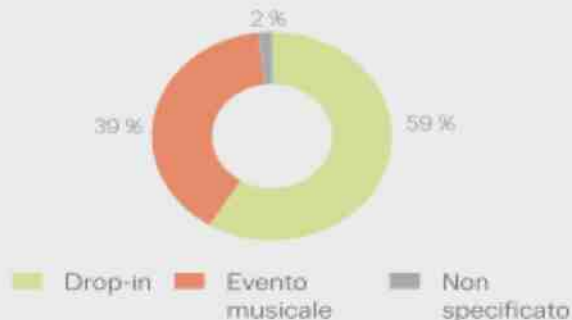
- Cannabinoidi sintetici
- Catinoni
- Fenetilamine

NPS: EPIDEMIOLOGIA

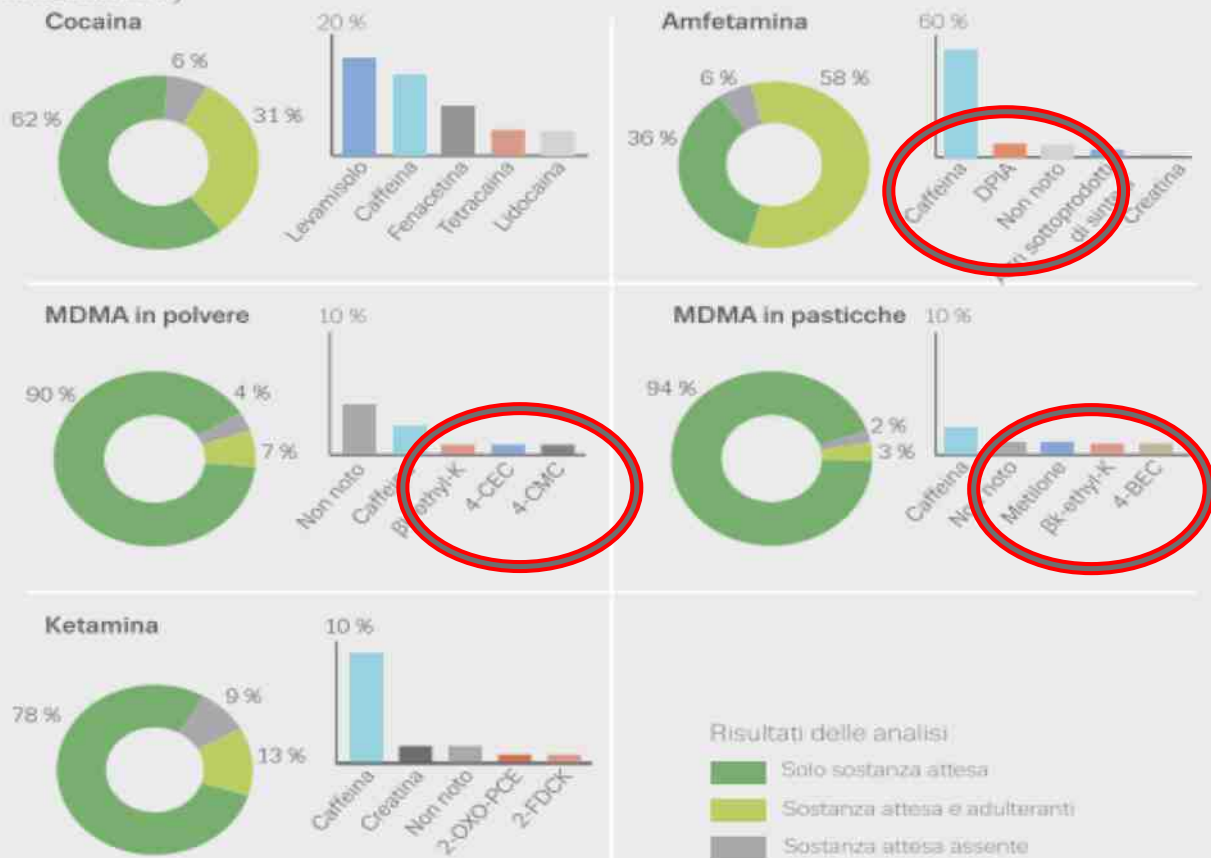
Numero di sostanze analizzate



Sostanze fatte analizzare, per contesto



Sostanze individuate e adulteranti più comuni (% di tutti i campioni analizzati per la presenza di adulteranti)



NPS: EPIDEMIOLOGIA

- ONLINE SURVEY O SELF REPORTS (GLOBAL DRUG SURVEY¹)
- REGISTRI CLINICI PAZIENTI CHE CERCANO ASSISTENZA MEDICA (EMCDDA², DATI NAZIONALI FARMACOVIGILANZA/SERD)
- NUMERI DI SEQUESTRI E QUANTITÀ SEQUESTRATA (RELAZIONE AL PARLAMENTO³, EARLY WARNING SYSTEMS, UNODC⁴)
- STIME QUANTITATIVE (WASTEWATER ANALYSIS)

¹ <https://www.globaldrugsurvey.com/>

² http://www.emcdda.europa.eu/edr2019_en

³ <http://www.politicheantidroga.gov.it/media/2445/339911.pdf>

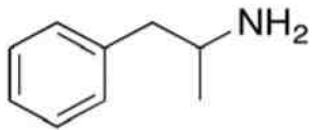
⁴ <https://www.unodc.org/wdr2019/>



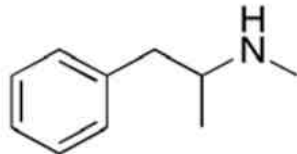
NPS STIMOLANTI

CLASSE CHIMICA	MECCANISMO D'AZIONE	EFFETTI AVVERSI
FENILETILAMINE	Agonisti del recettore serotoninergico che causano effetti psichedelici ed inibiscono il re-uptake delle monoamine	Iperensione, vomito, ipertermia, convulsioni, dissociazione, allucinazioni, deficit respiratori, insufficienza epatica e renale, decesso in caso di overdose
PIPERAZINE	Stimolanti che promuovono il rilascio di dopamina e NA ed inibiscono l'uptake delle monoamine	Ipertermia, convulsioni, insufficienza renale; allucinazioni e morte sono stati riportati ad alte dosi
TRIPTAMINE	Agonisti del recettore 5HT _{2A} e inibitori del re-uptake della serotonina	Allucinazioni visive, alterazioni della percezione sensoriale, depersonalizzazione
CATINONI SINTETICI	Simpaticomimetici che agiscono sulle vie di serotonina, dopamina e noradrenalina	Agitazione, irrequietezza, vertigine, dolore addominale, paranoia, rabdomiolisi, convulsioni, decesso
CANNABINOIDI SINTETICI	Agonisti dei recettori CB ₁ and CB ₂ con maggiore affinità, efficacia e potenza del δ 9-THC	Euforia, effetti ansiolitici ed antidepressivi, paranoia, tachicardia, panico, convulsioni, psicosi, allucinazioni visive ed uditive, vomito

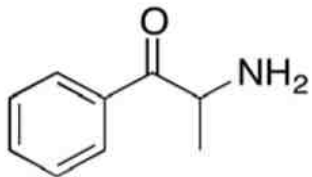
CATINONI SINTETICI



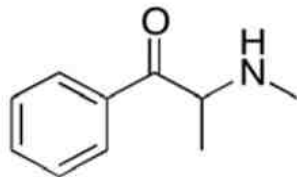
Amphetamine



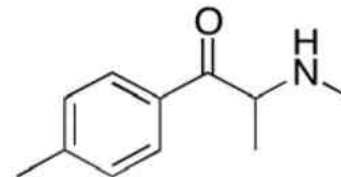
Methamphetamine



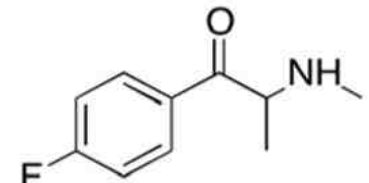
Cathinone



Methcathinone



Mephedrone

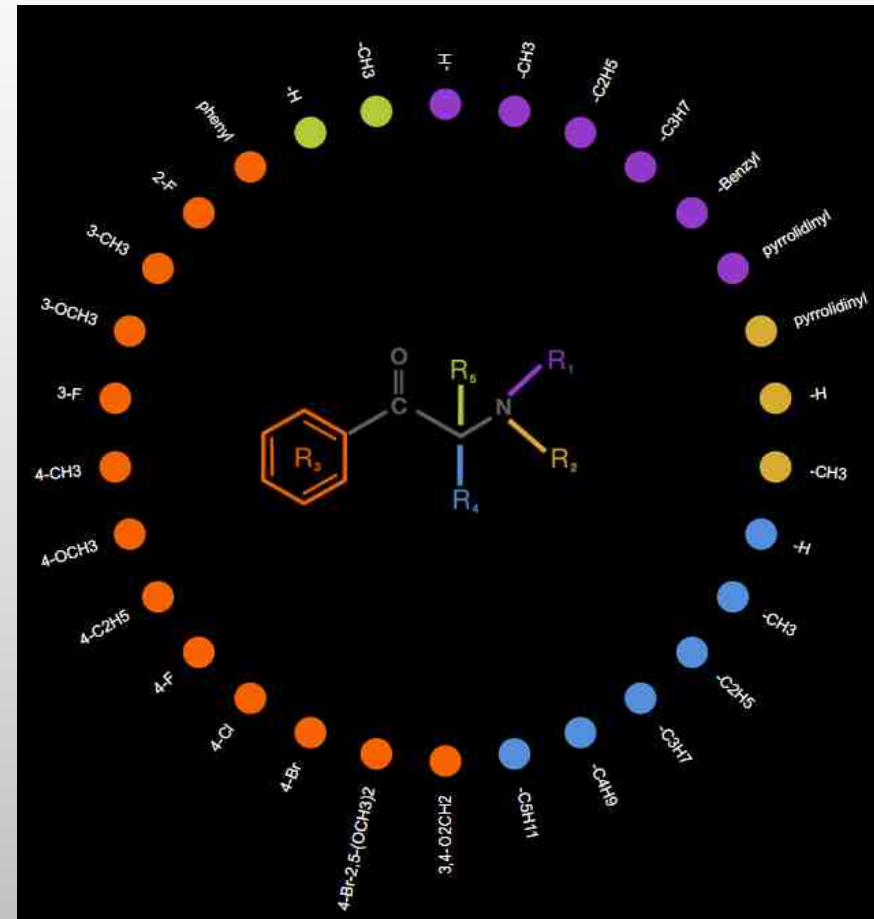


Flephedrone

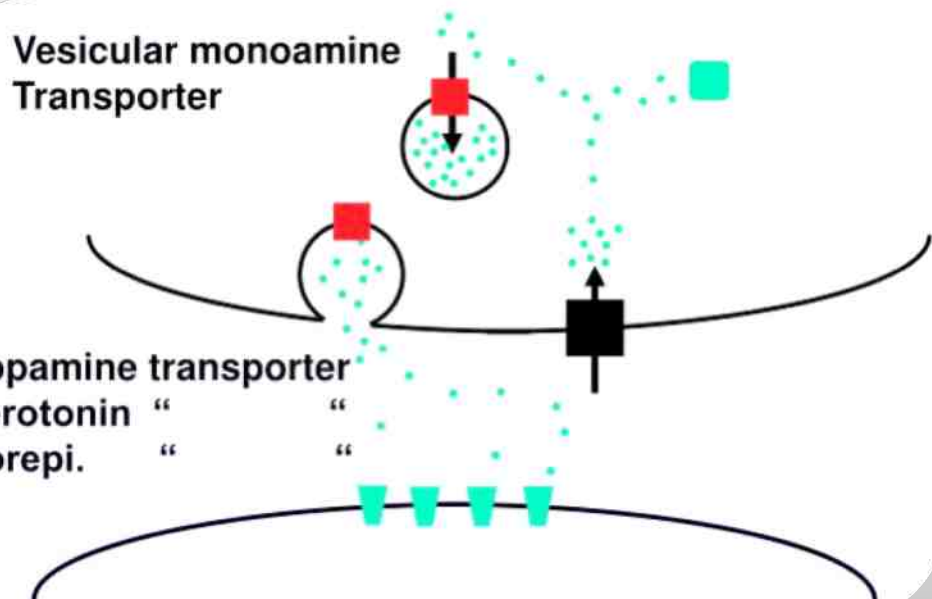
- DERIVATE DA CATHA EDULIS (KHAT), SVILUPPO DA 1920
- «AMFETAMINE NATURALI»; GRUPPO CHETONICO IN POSIZIONE B
- PROPRIETÀ STIMOLANTI, EUFORIZZANTI ED ENTACTOGENE

CATIONI SINTETICI

- COMPOSTI N-ALCHIL SOSTITUITI O CON SOSTITUENTE ALCHILICO O ALOGENO ALL'ANELLO AROMATICO
- COMPOSTI 3,4-METHYLENEDIOXY-N-ALCHILATI
- COMPOSTI N-PYRROLIDIN SOSTITUITI
- COMPOSTI 3,4-METHYLENEDIOXY-N-PYRROLIDIN SOSTITUITI



CATINONI SINTETICI



- Inibizione reuptake monoamine (DAT, NET, SERT)
- Promozione rilascio monoamine da depositi intracellulari



Aumento livelli DA, NA, 5-HT

CATINONI SINTETICI

- EUFORIA
- ↑ VIGILANZA
- ↑ EMPATIA
- LOQUACITÀ
- ↓ OSTILITÀ
- MIGLIORAMENTO DELL'UMORE
- ↑ INTUIZIONE
- MIGLIORE CONCENTRAZIONE
- ↑ AUTOSTIMA
- ↑ ENERGIA



- CARDIOVASCOLARI: TACHICARDIA SINUSALE, PALPITAZIONI, DOLORE TORACICO, IPERTENSIONE, ARRESTO CARDIACO
 - COGNITIVI: CONFUSIONE, DETERIORAMENTO COGNITIVO, AFFATICAMENTO MENTALE, DISORIENTAMENTO
- PSICHIATRICI: IRRITABILITÀ, ANSIA, ATTACCHI DI PANICO, ANEDONIA, DEPRESSIONE, DISFORIA, AGITAZIONE PSICOMOTORIA
 - NEUROLOGICI: DISTURBI DEL SONNO, INCUBI, TREMORI, CONVULSIONI, IPERTERMIA, MIDRIASI, BRUXISMO
 - PERCETTIVI: ALLUCINAZIONI VISIVE ED UDITIVE
 - EMATOLOGICI: CID, TROMBOCITOPENIA, ANEMIA
 - GASTROINTESTINALI: NAUSEA/VOMITO, ANORESSIA, DOLORE ADDOMINALE
- ALTRI: SUDORAZIONE PROFUSA, BOCCA SECCA, IPONATREMIA, IPERKALEMIA, IPERURICEMIA, ACIDOSI METABOLICA E RESPIRATORIA, INSUFFICIENZA RENALE ED EPATICA



CATINONI SINTETICI

VICE

Leggi Guarda Attualità Cultura Musica Cibo Tecnologia Identità Salute + Di Più



Chemsex

GHB, Grindr e viagra: in Italia il chemsex è diffuso, anche se non se ne parla

Le sostanze assunte durante le feste sono principalmente **GHB**—quello che spesso viene definito "droga dello stupro"—coca basata, **mefedrone**, crystal meth e il cosiddetto PV—ovvero l'MDPV, **un empatogeno con effetti che ricordano un misto tra MDMA e speed**. E poi si ricorre anche al viagra, perché uno degli effetti collaterali di queste sostanze è quello di inibire l'erezione. Questo è anche il motivo per cui spesso da un certo punto della

di ragazzi si incontrano per oltranza, molto spesso non

uucco

Snap



FENILETILAMINE: 2-CB

CRONACA 08/10/2019 10:03 CEST

Sequestrata "cocaina rosa" per migliaia di euro: serviva per la Fashion Week di Milano

Una dose può arrivare a costare anche 400 euro. Viene considerata la droga "dell'alta borghesia". Secondo gli inquirenti, sarebbe stata richiesta in grandi quantità durante la settimana della moda

ANSA



Spacciavano la cocaina rosa da 400 euro a dose durante la Milano Fashion Week: due arresti



(ANSA) - MILANO, 7 OTT - Due uomini, di 33 e 36 anni, sono stati arrestati dalla polizia per spaccio di droga a Milano. Gli agenti del commissariato Centro, attraverso un'attività di indagine, sono risaliti a un appartamento in via Pacini dove abitavano i due arrestati trovando 8 grammi di cocaina, 18 grammi di 2CB (detto anche 'Nexus' o 'cocaina rosa', una feniletilamina, ndr), 314 pasticche di ecstasy per un peso di 88 grammi, 35 grammi di ketamina, 40 grammi di hashish, 227 grammi di marijuana oltre a due bilancini, materiale da taglio e da confezionamento e circa tremila euro.

MILANO TODAY Sezioni

Cronaca



Cronaca / Città Studi / Via Giovanni Pacini

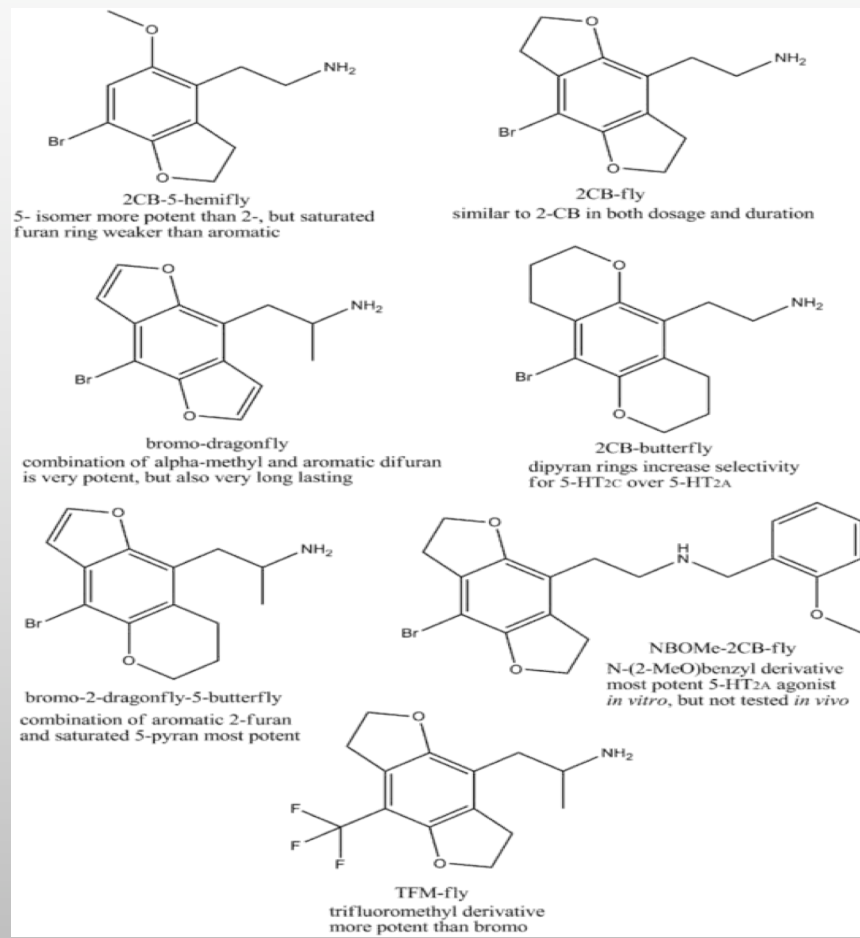
Cocaina rosa spacciata nei locali più esclusivi del centro: ecco i pusher della 'Milano bene'

Durante la Settimana della Moda i due avrebbero 'invaso' i locali del centro con la loro droga

FENILETILAMINE: 2-CB

- CORRELATE FARMACOLOGICAMENTE E STRUTTURALMENTE A MESCALINA
- BASSE DOSI: STIMOLANTI / ALTE DOSI: PSICHEDELICI
- A VOLTE VENDUTA COME ECSTASY, COCAINA

	Oral	Insufflated
ED50	10 mg	4–6 mg
Moderate	15–25 mg	5–9 mg
Strong	26–35 mg	10–20 mg
Extremely Intense	>35 mg	>20 mg
Duration	4–8 hours	2–4 hours



FENILETILAMINE: 2-CB

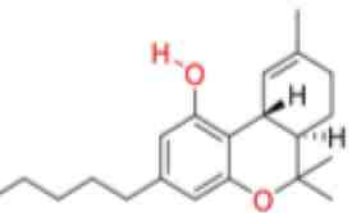
Reference	Gender/Age	Dose and route of administration	Toxicological analysis		Clinical presentation
			2C-B	Other drugs	
[Ambrose, 2010]	W/43	NA, oral (liquid)	NT	Urine toxicology positive to cannabinoids	Severe pulsatile headache
[Ho, 2013]	M/19	NA, oral (pills)	342 ng/mL	Urine toxicology negative and serum negative	Unresponsive, generalized tonic-clonic seizure with urinary incontinency
[Huang, 2013]	M/27	NA, oral (single tablet)	NT	Urine toxicology negative	Auditory hallucination, paranoid delusions, self-inflicted injury
[Liakoni, 2015]	M/30	NA	NR	NR	Insomnia, fear to forget to breath
[Hondebrink, 2015]	NR	NA	NR	Mono-exposure ± alcohol	Hypertension, tachycardia, apathy, bradyphrenia, reduced consciousness, drowsiness, mydriasis, hyperventilation, aggression, anxiety, hallucinations, nausea, vomiting
[Caicedo, 2016]	M/22	NA	NT	Urine toxicology positive to amphetamines	Diaphoresis, thoracic pain, dyspnea, nausea, vomiting
	M/26	NA	NT	NT	Suicide attempt
	M/36	NA	NT	Urine toxicology positive to cocaine, methamphetamine, phencyclidine	Agitation, visual and auditory hallucination, mystical delirium

Papaseit et al., (2018). *Clinical effects of 2-CB abuse*. Handbook of Novel Psychoactive Substances: What Clinicians Should Know about NPS

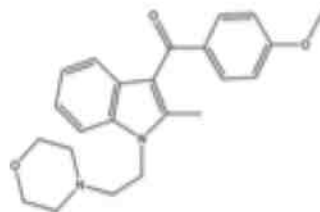
CANNABINOIDI SINTETICI

- DERIVATI SINTETICI DEL Δ^9 -TETRAIDROCANNABINOLO (THC)
- SVILUPPATI COME TOOLS SPERIMENTALI PER STUDIARE IL SISTEMA ENDOCANNABINOIDE E COME POSSIBILI OPZIONI TERAPEUTICHE PER LA SCLEROSI MULTIPLA E DOLORE CRONICO
- AGONISTI COMPLETI RECETTORI CB1 – CB2
- AGONISMO PARZIALE O EFFETTO SU ALTRI RECETTORI (SEROTONINA, ACETILCOLINA, CANALI K)

Δ^9 -tetrahydrocannabinol

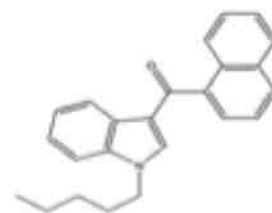


Benzoylindoles



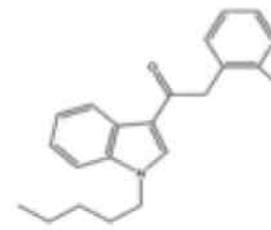
WIN-48,098

Naphtoylindoles



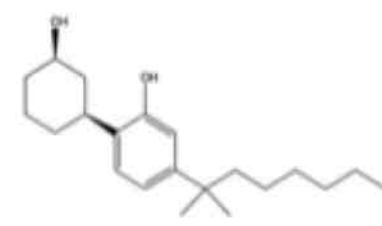
JWH-018

Phenylacetylindoles



JWH-250

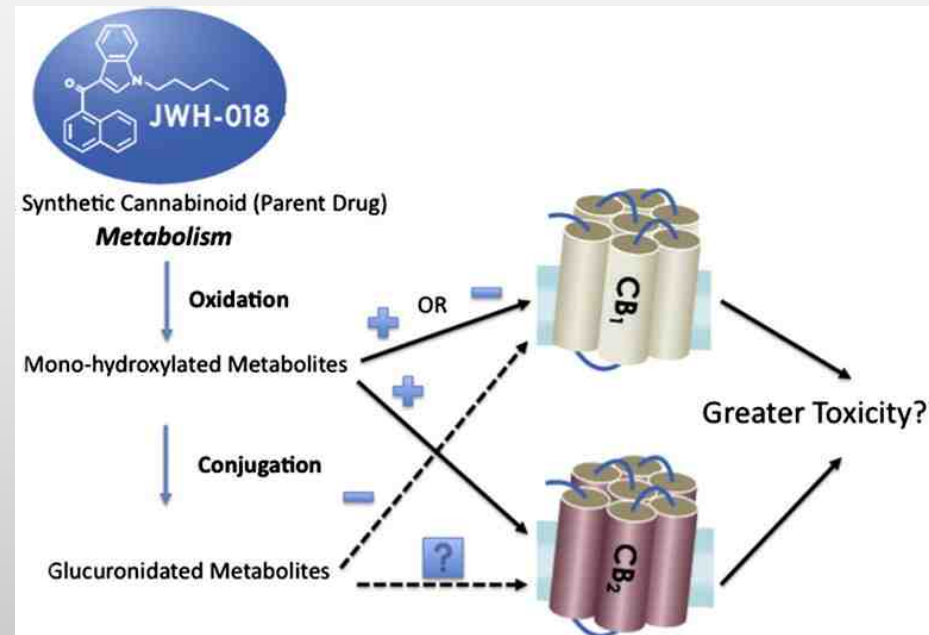
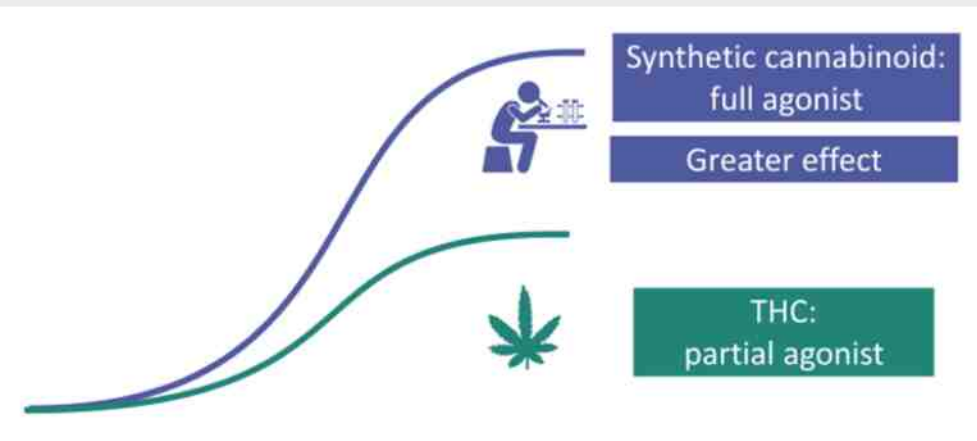
Cyclohexylphenols



CP-47497

CANNABINOIDI SINTETICI

DIFFERENZE VS THC:



FARMACODINAMICHE E FARMACOCINETICHE

CANNABINOIDI SINTETICI

MARIJUANA

EFFECTS ON THE BRAIN

Paranoia
Anxiety
Depression
Slow reaction time
Distorted sense of time
Short-term memory loss
Feeling of relaxation
Strange feelings
or "random" thinking



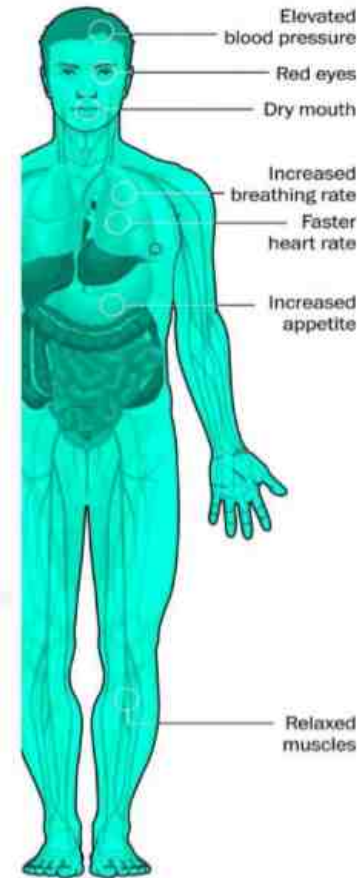
SYNTHETIC CANNABINOIDS

EFFECTS ON THE BRAIN

Paranoid delusions
Anxiety
Depression
Suicidal thoughts
Psychosis
Severe agitation
Inability to feel pain
Hallucinations
Total memory loss

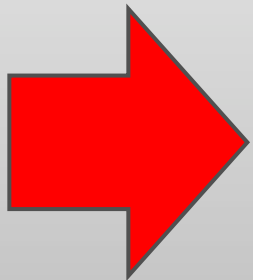
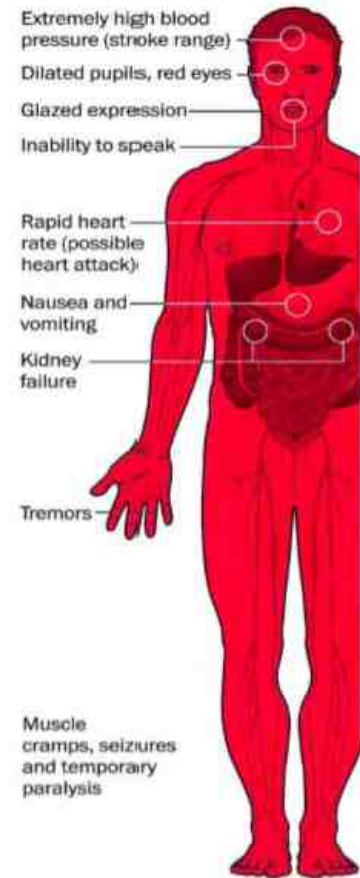
MARIJUANA

PHYSICAL EFFECTS



SYNTHETIC CANNABINOIDS

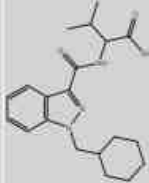
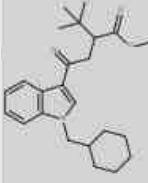
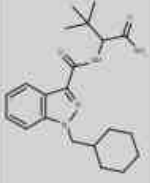
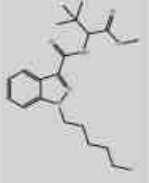
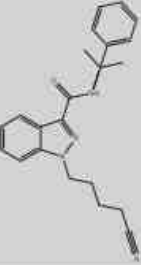
PHYSICAL EFFECTS



EFFETTI "AMPLIFICATI"

CANNABINOIDI SINTETICI

- EPATITE TOSSICA / INSUFFICIENZA EPATICA
- RABDOMIOLISI COMPLICATA DA IRA, SINDROME COMPARTIMENTALE, CID
- COMA
- STROKE, IMA
- SINDROME SEROTONINERGICA
- IPERTERMIA
- PSICOSI ACUTE / AGITAZIONE PSICOMOTORIA
- ARITMIE SEVERE

Denominazione comune	AB-CHMINACA	MDMB-CHMICA	ADB-CHMINACA	5F-MDMB-PINACA	CUMYL-4CN-BINACA
Struttura chimica					
Notifica formale al sistema di allerta rapido dell'UE	10 aprile 2014	12 settembre 2014	24 settembre 2014	8 gennaio 2015	4 marzo 2016
Numero di decessi	31	29	13	28	11
Numero di paesi in cui si sono verificati decessi associati	6	6	3	2	2
Numero di sequestri da parte delle forze dell'ordine	6 422	>3 600	3 794	1 986	2 461
Numero di paesi in cui è stato sequestrato (UE, Turchia e Norvegia)	26	25	19	27	12

CANNABINOIDI SINTETICI

HUMAN PSYCHOPHARMACOLOGY

Hum. Psychopharmacol Clin Exp 2013; **28**: 379–389.

Published online in Wiley Online Library

(wileyonlinelibrary.com) DOI: 10.1002/hup.2312

SPECIAL ISSUE ON NOVEL PSYCHOACTIVE SUBSTANCES

“Spiceophrenia”: a systematic overview of “Spice”-related psychopathological issues and a case report

Duccio Papanti^{1,2*}, Fabrizio Schifano³, Giulia Botteon^{1,2}, Francesca Bertossi⁴, Jason Mannix⁵, Daniela Vidoni⁶, Matteo Impagnatiello², Elisabetta Pascolo-Fabrizi^{1,7} and Tommaso Bonavigo^{1,4}

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³University of Hertfordshire, Hatfield, UK

⁴Community Mental Health Team Domio, Trieste, Italy

⁵Southern General Hospital, Glasgow, UK

⁶UOBA 2, Trieste, Italy

⁷Community Mental Health Team Gambini, Trieste, Italy

CANNABINOIDI SINTETICI

ZOMBIE DRUG: POLICE CALLOUTS DOUBLE

Horrendous toll on emergency services as Spice leaves trail of misery

I thought it was just a cigarette... I was hooked after a drag

Manchester Evening News
WEDNESDAY 28 APRIL 2017
A digital revolution in the newsroom
THIS EVIL DRUG IS LEAVING A TRAIL OF HUMAN MISERY AND TURNING PROSPEROUS GARDENS INTO A LIVING HELL - THE M.E.N. TODAY CALLS FOR ACTION. SPECIAL REPORT PAGES 2-9



DAILY Mirror
Dianna's obsession with married stud who dumped her
MIRROR INVESTIGATES
BRITAIN'S ZOMBIE DRUG EPIDEMIC
2.5m told to 'never' faces 'one ticket' for charge
They: My secrets Reathes
Spice addicts plaguing streets are a national crisis, experts warn

CANNABINOIDI SINTETICI



*“THE MOST SERIOUS
THREAT TO THE
SAFETY AND
SECURITY OF THE
PRISON SYSTEM WE
EVER FACED”*

(HM INSPECTORATE
OF PRISONS 2015)

NEWS

Home UK World Business Politics Tech

England Local News Regions Bristol

Drugs, violence and despair - a disturbing picture of life inside Strangeways prison

At Strangeways there were almost 100 assaults on staff and four cases of prisoners apparently taking their own lives in 2016

Violence at Bristol prison due to 'deluge of drugs'

The inspectors noted "some grounds for cautious optimism between staff and prisoners were reasonably good and a lot of work done to support prisoners being released.

Michael Spurr, chief executive of HM Prison and Probation, said the current situation as unacceptable.

"Funding has been increased and more staff, including officers, are being recruited," he said.

"Work to improve safety, reduce violence and improve rehabilitation is being prioritised."



The scale of the crisis engulfing prisons in England and Wales can be revealed, as an *Observer* investigation found that two-thirds are providing inmates with inadequate conditions or unacceptable treatment.



Confirming previous reports that some inmates are being coerced or persuaded into becoming 'Spice pigs' to test new batches of drugs, Mr Newcomen said: "There are cases of prisoners being given 'spiked' cigarettes by others who want to test new batches of NPS, as a way of gauging the effect before taking it themselves.

"In other cases, prisoners have even been used as unwitting NPS guinea pigs, sometimes just for the amusement of onlookers."

Prisons dealers have also been using increasingly sophisticated tactics, including using drones to drop packages of legal highs to inmates.

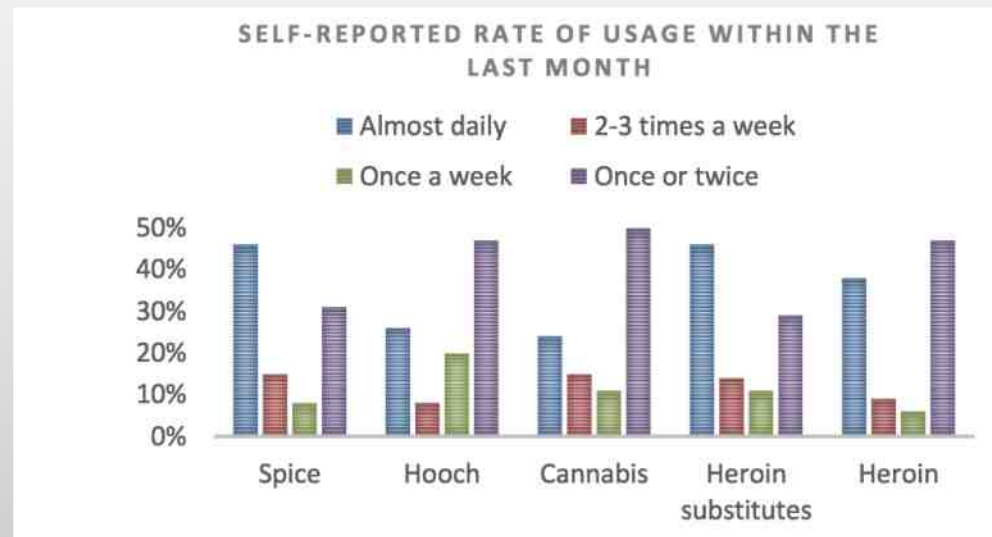
An analysis of hundreds of inspections covering 118 institutions found that a staggering 68% are now providing unsatisfactory standards in at least one respect, with two in five jails deemed to be unacceptably unsafe.

Rory Stewart, the prisons minister, described the state of some jails as "deeply disturbing". Writing in the *Observer*, he concedes that prisons are rife with psychoactive drugs, and see "increasing levels of violence committed by prisoners, and horrifying rates of self-harm".

CANNABINOIDI SINTETICI

IN UK:

- MORTI IN ISTITUTI PENITENZIARI SALITI DA 192 (2012) A 257 (2015) (MINISTRY OF JUSTICE 2016)
- 42,837 CASI DI COMPORTAMENTI AUTOLESIVI NEL 2017 (117AL GIORNO) (+27% VS 2016) (MINISTRY OF JUSTICE 2018)
- RECORD DI EPISODI DI VIOLENZA TRA PRIGIONIERI E CONTRO PERSONALE IN 2015 (20,346) (MINISTRY OF JUSTICE 2016)



PERFORMANCE AND IMAGE ENHANCING DRUGS

PERFORMANCE AND IMAGE ENHANCING DRUGS (PIEDS): «UMBRELLA TERM» CHE COMPRENDE UN'AMPIA VARIETÀ DI SOSTANZE (SPESSO LEGALI):

- «COGNITIVE ENHANCERS» E NEUROSTIMOLANTI
- FARMACI PER MIGLIORARE PERFORMANCE SPORTIVA
 - EPO
 - DIURETICI
 - STEROIDI ANABOLIZZANTI, MODULATORI SELETTIVI RECETTORI ANDROGENI
 - BETA BLOCCANTI
 - HGH
- INTEGRATORI DIETETICI E SPORTIVI
- STIMOLANTI (CAFFEINA, TAURINA, EFEDRINA...)

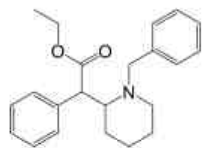


PERFORMANCE AND IMAGE ENHANCING DRUGS

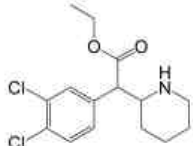
Cognitive enhancer	Neuromodulatory mechanism	Cognitive functions improved	Known brain systems most affected	Currently recommended clinical use
Methylphenidate, amphetamines	Dopamine and noradrenaline reuptake inhibitors	Response inhibition, working memory, attention, vigilance	Frontoparietal attentional systems, striatum, default mode networks	Attention deficit Hyperactivity Disorder (ADHD), wake-promoting agent
Modafinil	Unknown, but effects on dopamine, noradrenaline and orexin systems proposed	Working memory, episodic memory, attention	Frontal lobe attentional systems	Wake-promoting agent
Atomoxetine, reboxetine	Noradrenaline reuptake inhibitors	Response inhibition, working memory, attention	Frontoparietal attentional systems	ADHD, depression
Donepezil, galantamine, rivastigmine (AChEI)	Blocks enzymatic breakdown of acetylcholine	Episodic memory, attention	Frontal lobe attentional systems	Alzheimer's disease, PDD, DLB
Memantine	Noncompetitive, low-affinity, open channel blocker of the NMDA receptor	Episodic memory, attention	Frontal and parietal lobe	Alzheimer's disease

Luthi & Liechti., (2018). *Clinical effects related to Methylphenidate related NPS*. Handbook of Novel Psychoactive Substances: What Clinicians Should Know about NPS

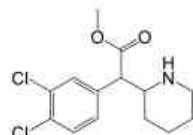
PERFORMANCE AND IMAGE ENHANCING DRUGS



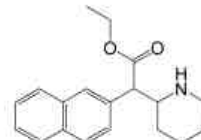
N-Benzylethylphenidate



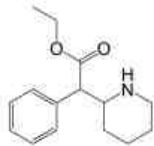
3,4-Dichloroethylphenidate



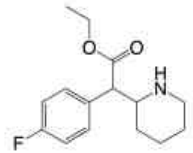
3,4-Dichloromethylphenidate



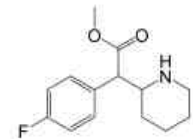
Ethylnaphthidate



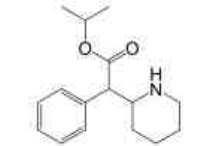
Ethylphenidate



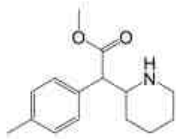
4-Fluoroethylphenidate



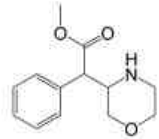
4-Fluoromethylphenidate



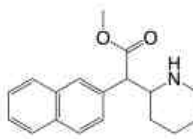
Isopropylphenidate



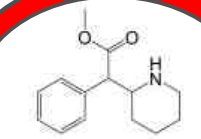
4-Methylmethylphenidate



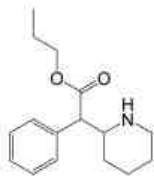
Methylmorphenate



Methylnaphthidate



Methylphenidate



Propylphenidate

METILFENIDATO:

- UTILIZZO PER ADHD E NARCOLESSIA
- SE IN VIA INTRANASALE, SIMILE A COCAINA PER EFFETTI E FARMACODINAMICA
- VARIETÀ DI NPS CHIMICAMENTE CORRELATE

PERFORMANCE AND IMAGE ENHANCING DRUGS

	NET IC ₅₀ [μM]	DAT IC ₅₀ [μM]	SERT IC ₅₀ [μM]	DAT/SERT ratio
<i>Phenidates</i>				
Methylphenidate	0.12	0.13	274	2108
4-Methylmethylphenidate	0.09	0.15	164	1093
Ethylphenidate	0.81	0.61	257	421
4-Fluoromethylphenidate	0.04	0.15	40	267
3,4-Dichloromethylphenidate	0.01	0.05	12	240
Isopropylphenidate	2.3	0.82	147	179
Methylmorphenate	9.3	13	1831	141
3,4-Dichloroethylphenidate	0.13	0.08	8	100
Propylphenidate	0.94	1.2	84	70
N-Benzylethylphenidate	95	60	2515	42
Ethyl-naphthidate	0.42	0.34	1.7	5
Cocaine	0.48	0.9	1.5	1.7

All values are means and have been published in (Luethi, Kaeser, et al., 2017). DAT/SERT ratio = 1/DAT IC₅₀ : 1/SERT IC₅₀.

PERFORMANCE AND IMAGE ENHANCING DRUGS

PIEDS VS NPS: DUE ASPETTI DELLO STESSO FENOMENO?

- NUOVA COORTE DI UTENTI
- DISPONIBILITÀ ONLINE
- COMMERCIALIZZATI COME “LEGALI” O “NATURALI”
- POSSIBILI CONTAMINAZIONI
- SCARSI DATI CLINICI E TOSSICOLOGICI



PERFORMANCE AND IMAGE ENHANCING DRUGS

INTEGRATORI DIETETICI, SPORTIVI, PER FITNESS...

- CREATINA
- PROTEINA DI SOIA
- MULTIVITAMINICI
- AMINOACIDI RAMIFICATI
- “KETOGENICI”
- OMEGA 3
- GLUTAMINA
- CARNITINA
- BETA ALANINE
- CAFFEINA
- GLUCOSAMINA
- ...



OPEN ACCESS

IOC consensus statement: dietary supplements and the high-performance athlete

Ronald J Maughan,¹ Louise M Burke,^{2,3} Jiri Dvorak,⁴ D Enette Larson-Meyer,⁵ Peter Peeling,^{6,7} Stuart M Phillips,⁸ Eric S Rawson,⁹ Neil P Walsh,¹⁰ Ina Garthe,¹¹ Hans Geyer,¹² Romain Meeusen,¹³ Lucas J C van Loon,^{3,14} Susan M Shirreffs,¹ Lawrence L Spriet,¹⁵ Mark Stuart,¹⁶ Alan Verenc,¹⁷ Kevin Currell,¹⁸ Vidya M Ali,¹⁹ Richard GM Budgett,²⁰ Arne Ljungqvist,²¹ Margo Mountjoy,^{22,23} Yannis P Pitsiladis,¹⁹ Torbjørn Soligard,²⁰ Uğur Erdener,¹⁹ Lars Engebretsen²⁰



PERFORMANCE AND IMAGE ENHANCING DRUGS

- MERCATO AMPIO E NON REGOLATO
- ALTA PREVALENZA TRA ATLETI E SPORTIVI NON PROFESSIONISTI
- SCARSO COUNSELLING DA PROFESSIONISTI SANITARI
- SCAMBIO DI INFORMAZIONI ED ACQUISTO ONLINE
- POSSIBILE CONTAMINAZIONE CON SOSTANZE PROIBITE (GH, AAS, SILDENAFIL, DMAA...)

Annual Review of Public Health

Problems and Prospects: Public Health Regulation of Dietary Supplements

Colin W. Binns,¹ Mi Kyung Lee,² and Andy H. Lee¹

¹h, Western Australia 6845, Australia;
i.au

ty, Perth, Western Australia 6150, Australia;

Prohibited Contaminants in Dietary Supplements

Neilson M. Mathews, M

ORIGINAL RESEARCH

Protein supplements and adolescent athletes: A pilot study investigating the risk knowledge, motivations and prevalence of use



Gavin WHITEHOUSE and Tanya LAWLIS
School of Public Health and Nutrition, Faculty of Health, University of Canberra, Canberra, Australian Capital Territory, Australia

Review

Intended or Unintended Doping? A Review of the Presence of Doping Substances in Dietary Supplements Used in Sports

José Miguel Martínez-Sanz^{1,2,*}, Isabel Sospedra^{1,2}, Christian Mañas Ortiz³, Eduard Baladía^{2,4}, Angel Gil-Izquierdo^{2,5} and Rocio Ortiz-Moncada^{2,6}

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PERFORMANCE AND IMAGE ENHANCING DRUGS

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LOUISE MATSAKIS

BUSINESS 07.19.2019 05:25 PM

Amazon Warns Customers: Those Supplements Might Be Fake

The company confirmed that it had notified users earlier this week that the Align supplements they purchased were likely counterfeits.

PERFORMANCE AND IMAGE ENHANCING DRUGS

NBA

NBA, guaio ad Atlanta: John Collins positivo all'anti-doping:

Dopo Wilson Chandler (Brooklyn) e DeAndre Ayton (Phoenix), Collins diventa il terzo giocatore a subire in questa stagione una squalifica di 25 gare per aver fallito un test anti-doping. "Colpa di un integratore contaminato con una sostanza illegale", spiega il secondo miglior giocatore di Atlanta, che ha già annunciato ricorso, supportato dalla associazione giocatori

NUOVE SOSTANZE PER NUOVI CONSUMATORI

- “PSYCONAUTI”
- UTENTI “TRADIZIONALI”
- TEENAGERS / STUDENTI UNIVERSITARI
- POPOLAZIONE CARCERARIA
- SENZA FISSA DIMORA
- ATLETI
- PROFESSIONISTI CON LUNGHI TURNI
- MILITARI
- ...



NUOVE SOSTANZE PER NUOVI CONSUMATORI

FROM DUSTERS TO “HUFFERS”:

THE EMERGENCE OF NEW DANGEROUS INHALANTS AMONG TEENS: A CASE REPORT.

Levari, E (a), Stefani, M (a), Ferrucci, R (a), Negri, A (b, c), Corazza, O (c, d)

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- b. School of Clinical Pharmacology
- c. School of Life and Medical Sciences
- d. Sapienza University of Rome, Italy

When asked about her abuse of psychoactive substances F. admitted two experimental episodes of cannabis use. She also disclosed a recreational use of alcohol, which caused an access to the Emergency Unit during the previous summer, due to alcohol-induced coma. Such use had been occasional in the previous year, mostly in the form of binge-drinking. She denied to have ever used any other psychoactive substance, but admitted having started to inhale spray cans used to clean computer's screens and keyboards dust during the previous month and half: she revealed that this behaviour is very popular in her peers as the spray cans are easy to reach, legal and cheap. She used the spray more than 10 times, approximately one episode per week, in which she frequently redosed to obtain longer effects. The psychoactive effects she experienced were euphoria, relaxation feelings and vivid dreams. At the same time, she reported side-effects after the intake, mainly consisting in persistent headaches and in a syncopal episode which took place after a few repeated inhalations. The persistent headache episodes, lasting more than 24 hours, caused her concentration difficulties: due to this, and against the opinion of her parents, she decided to quit school few weeks before. She claimed she wanted to discontinue such use, as she is aware that this may “hurt her brain and lungs”.

NUOVE SOSTANZE PER NUOVI CONSUMATORI

The cardiac risks of Energy Drinks consumption in adolescents: a case report

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²ASST Grande Ospedale Metropolitano Niguarda, Milano

A 15-year-old boy accessed the ER of ASST Grande Ospedale Metropolitano Niguarda in Milan presenting precordial discomfort with palpitations approximately 1 hour after the ingestion of one Energy Drink and two soda drinks, all containing caffeine in different amounts. The anamnestic interview did not report any significant information apart from occasional, self-resolving palpitations after sport activity. Physical examination showed tachycardia (124 bpm) and arrhythmic heart tones; an electrocardiography was performed showing signs of AF. Blood tests did not report any alteration and toxicological tests, including alcohol, resulted negative. The echocardiography showed no functional nor structural changes, with preserved ejection fraction. The patient was administered Amiodarone 150mg/3ml IV in 1 hour, without resolution of the AF; he was then transferred to the paediatric cardiology ward, where an electric cardioversion (70J) was performed, with sinus rhythm restoration. No other arrhythmic episode was registered during further clinical observation and the patient was discharged with the diagnosis of “AF induced by Energy Drinks in subject with atrial hyperexcitability” and the recommendation to avoid Energy Drinks and caffeine consumption. The follow-up after one month was negative.

2016, MILANO



271 CASI
187 MASCHI
84 FEMMINE

ETÀ MEDIA **39,7**
(13-85, DS 14,5)

Ospedale Niguarda  Regione Lombardia 

Analisi 2016, quesito: «quanto le intossicazioni da sostanze psicoattive impattano sulla casistica di utenti trattati dal DEA di Niguarda»

Metodo: estrazione dal database «Piesse» di verbali di utenti visitati tra luglio e dicembre 2015 con diagnosi di accettazione di triage di intossicazione o anomalie comportamentali.

2016, MILANO

Diagnosis of intoxication was mostly clinically driven (only in 82 cases were toxicology tests on substances of abuse performed). The most common substance identified was alcohol ($n = 12,9$ 47.6%) and 16 subjects were positive for tetrahydrocannabinol (THC), 18 for benzodiazepines, 6 for cocaine, and 1 for opioids. NPS abuse emerged only in 3 cases, 2 were suggestive of ketamine, and 1 positive for methamphetamine. One patient had reportedly taken methylenedioxypropylvalerone (MDPV) but not tested. We detected 98 cases in which substance abuse was clinically suggestive but not tested: the most common symptoms were dissociative ideation, dangerous behavior and visual hallucinations. Among these, 67 (68.4%) were admitted to a psychiatric ward; 46 were diagnosed with psychosis, and 12 with a maniacal episode.

NPS: NON CI SONO O NON LE VEDIAMO?

RELAZIONE AL PARLAMENTO 2019

☰ MENU | 🔍 CERCA

la Repubblica

R+

Rep:

ABBONATI

ACCEDI



Sempre più morti per droga in Italia: 334 vittime nel 2018 (+12,8%)



La Relazione annuale al Parlamento sul fenomeno delle tossicodipendenze in Italia: cannabis la più diffusa. Stabile la cocaina. Aumenta la diffusione delle nuove sostanze psicoattive e degli oppiacei

RELAZIONE AL PARLAMENTO 2019

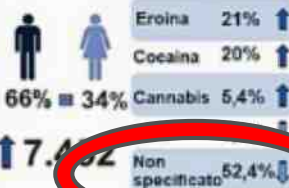


PRESIDENZA DEL CONSIGLIO DEI MINISTRI
DIPARTIMENTO PER LE POLITICHE ANTIDROGA

pubblicato su
ISSANIA

RICOVERI

Diagnosi principale
droga correlata



Fonte: Ministero dell'Interno

DECESSI



Fonte: Ministero dell'Interno

Fonte: CNR

UTENZA IN TRATTAMENTO



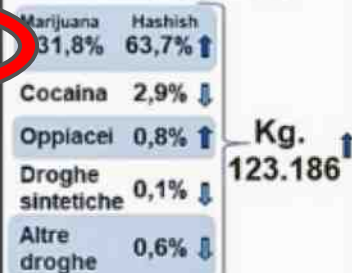
Fonte: Ministero della Salute

OPERAZIONI ANTIDROGA

25.596 ↓

Fonte: Ministero dell'Interno

SEQUESTRI



Dosi/compresses
↑ 34.775

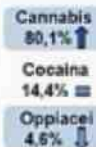


Fonte: Ministero dell'Interno

SEGNALAZIONI PER ART. 75

↑ 41.054

Fonte: Ministero dell'Interno



DENUNCE 35.745 ↑
69% ↓
In stato di arresto

Fonte: Ministero dell'Interno

CONDANNE PER REATI DRUGA CORRELATI
14.380 ↑ artt. 73 - 74

Fonte: Ministero dell'Interno

DETENUTI PER REATI DRUGA CORRELATI
35,2% ↑

della popolazione carceraria

Fonte: Ministero della Giustizia

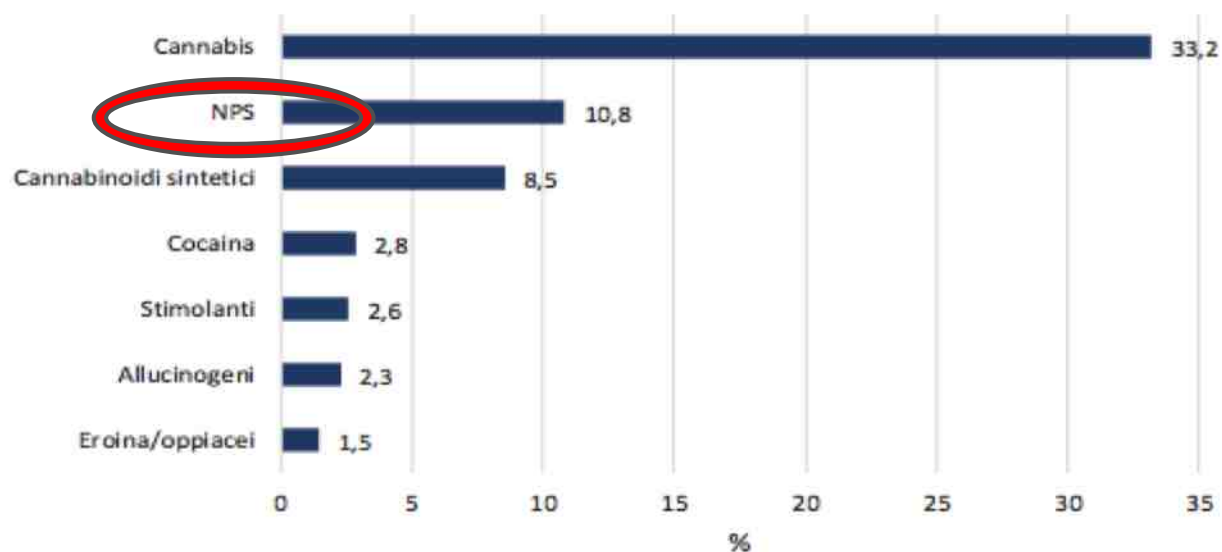
MISURE ALTERNATIVE AL CARCERE
3.354 ↑

Fonte: Ministero della Giustizia

RELAZIONE AL PARLAMENTO 2019

La cannabis rimane la sostanza illegale maggiormente utilizzata e in pochi anni hanno raggiunto il secondo posto le Nuove Sostanze Psicoattive (*New Psychoactive Substances - NPS*), seguite da cannabinoidi sintetici, cocaina, stimolanti, allucinogeni ed eroina. L'uso di sostanze psicoattive si conferma più diffuso tra gli studenti di genere maschile: per tutte le sostanze il rapporto di genere è di circa 1,5, a eccezione della cocaina e degli allucinogeni, sostanze per le quali la prevalenza tra i ragazzi è doppia rispetto a quella tra le ragazze.

Fig. 3.1.2 - Uso di sostanze psicoattive nella vita

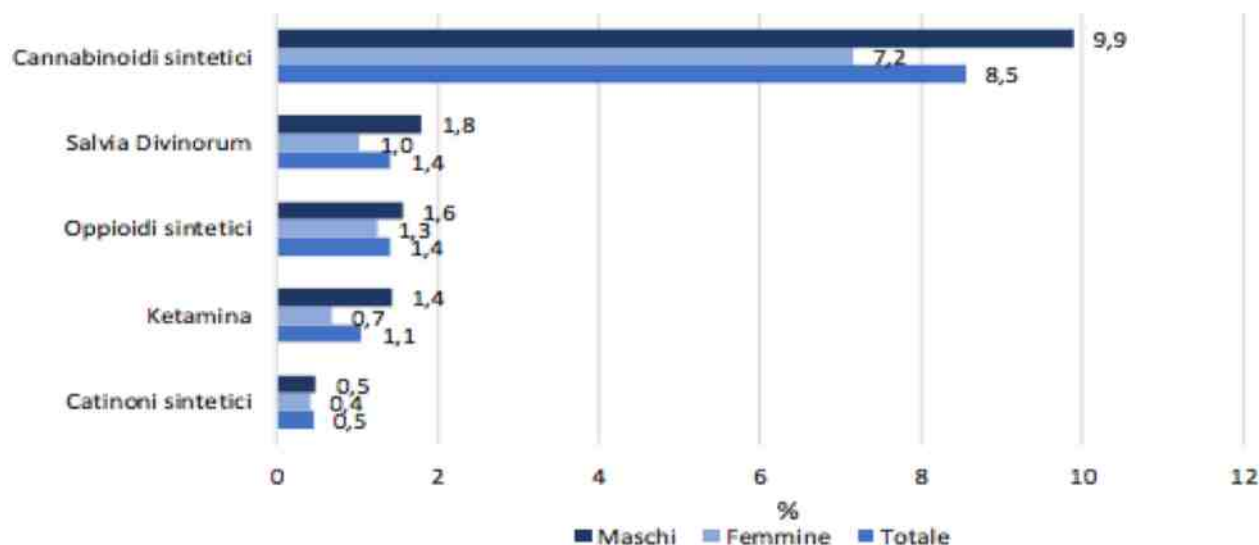


RELAZIONE AL PARLAMENTO 2019

NUOVE SOSTANZE PSICOATTIVE - NPS

Il 10,8% degli studenti (M=12,4%; F=9,1%), pari a 280.000 ragazzi, ha riferito di aver utilizzato almeno una volta nel corso della vita una o più delle cosiddette NPS, tra le quali si ascrivono cannabinoidi sintetici, catinoni sintetici e oppioidi sintetici. Le NPS più diffuse sono quelle attribuibili alla categoria dei cannabinoidi sintetici (conosciuti anche come *spice*), provati almeno una volta dall'8,5% degli studenti.

Fig. 3.1.10 - Consumo di NPS nella vita per genere



CRITICITÀ PER GLI OPERATORI

- COORTE ETEROGENEA DI POTENZIALI UTILIZZATORI
- RICERCA TOSSICOLOGICA NECESSARIAMENTE MIRATA E NON SEMPRE DISPONIBILE (GC-MS)
- USO NON SEMPRE DICHIARATO AI SERVIZI O PROBLEMATIZZATO (PIEDS)
- CONTENIMENTO SINTOMATOLOGIA PSICHIATRICA IN URGENZA (AGITAZIONE PSICOMOTORIA)
- POSSIBILI COMPLICANZE MEDICHE (SINDROME SEROTONINERGICA, IPERTERMIA, RABDOMIOLISI)
- TRATTAMENTO A LUNGO TERMINE DISTURBO USO DI SOSTANZE



INTERVENTO IN URGENZA



- RACCOLTA ANAMNESI QUANDO POSSIBILE
- ESAME FISICO COMPLETO (SNC E SNP, CVS, GI...)
- ESAME PSICHIATRICO
- SE NECESSARIO, SEDAZIONE RAPIDA
- IDRATAZIONE, MONITORAGGIO FUNZIONI VITALI (PA, FC, FR, SAT O2, TEMPERATURA...) ED EVENTUALE TRATTAMENTO COMPLICANZE
- SE SOSPETTO, RICHIEDERE TEST TOSSICOLOGICI SU CAMPIONI BIOLOGICI (INVIO A CAV / SNAP)
- SEGNALAZIONE ED AGGANCIO SERVIZI TERRITORIALI

SEDAZIONE RAPIDA

NPS in Emergency Rooms

Dealing With Aggressiveness and Psychomotor Agitation

Carla Morganti, Attilio Negri, Laura Cazzaniga, Riccardo C. Gatti, and Franca Davanzo

Table 6.2 Different Options of BZD Treatment and Routes of Administration

<i>Oral Administration</i>	<i>IM Administration</i>	<i>IV Administration</i>
Lorazepam 2.5–5 mg	Lorazepam 4 mg/ml	Lorazepam 4 mg/ml
Delorazepam 2 mg	Midazolam 5 mg/ml–10 mg/ml	Midazolam 5 mg/ml
Diazepam 5 mg	Delorazepam 2 mg/ml	Diazepam 10 mg/2 ml

<i>Drug</i>	<i>Maximum Dose / 24 h</i>	<i>Time Interval Between Administrations</i>	
		<i>Oral</i>	<i>IM/EV</i>
Haloperidol	20 mg	- peak: 2–6 h - t/2: 21 h - repeatable after 2–3 h	- peak: 20–30 min - t1/2: 21 h - repeatable after 1–8 h
Promazine	300 mg	- peak: 2–4 h (warning: bioavailability may vary between 27–67% due to liver's first pass effect) - t/2: 6 h - repeatable after 2–3 h	- peak: 1.5 h - t1/2: 6 h - repeatable after 30 min
Lorazepam	12 mg	- peak: 2–6 h - t/2: 12 h - repeatable after 2–3 h	- peak: 60–90 min - t/2: 12 h - repeatable after 2 h
Diazepam	60 mg	- peak: 30–90 min - t/2: 24–48 h - repeatable after 1 h	Only IV - peak: 1–5 min - t/2: 20–70 h - repeatable after 1–2 h
Delorazepam	6 mg	- peak: 45 min (drops)–1 h (tablets); - t/2: 60–240 h - repeatable after 1 h	- peak: 30–60 min - t/2: 60–240 h - repeatable after 2 h
Midazolam	40 mg	n.a. (not available)	- peak: 30 min - t/2: 3h - repeatable after 10 min

Handbook of Novel Psychoactive Substances

What Clinicians Should
Know About NPS

Edited by Ornella Corazza and
Andres Roman-Urrestarazu



**GRAZIE PER
L'ATTENZIONE!**