Drug or	Administration	Mechanism of	ant to pharmacists an Effects	Classification	Does it cause	Street
drug class	path	action			dependence?	names
Benzodiazepines	Oral; IV and IN use also recorded in misuse cases.	They act on benzodiazepine receptors located between α and γ subunits of GABA-A receptor/channel complexes, enhancing the inhibitory effects of GABA.	CNS-depressant: sedative, hypnotic, anxiolytic, anticonvulsant and muscle-relaxant properties.	• ACMD: Class C; • DEA: Schedule IV.	Yes	
Pregabalin; gabapentin (gabapentinoids)	Oral; IV and IN use also recorded in misuse cases.	<ul> <li>Selective inhibitory effect on voltage-gated calcium channels containing the α2δ-1 subunit;</li> <li>Although structurally related to GABA, no known direct actions on GABA or its receptors.</li> </ul>	Diminish excessive neuronal activity and neurotransmitter release, resulting in anxiolytic, muscle relaxant, anticonvulsant and antineuralgic effects.	EMCDDA: regarded as NPS; ACMD: both reclassified as Class C controlled substances.	Yes	
Quetiapine (second generation antipsychotic)	Oral; IV and IN use also recorded in misuse cases.	<ul> <li>Increased DA levels in the nucleus accumbens area and D2 receptor blockage;</li> <li>Norquetiapine-related norepinephrine reuptake blockade, 5-HT7 antagonist properties and o-receptor activation.</li> </ul>	Sedative and anxiolytic effects.	EMCDDA: notified as NPS (2014).	No	'Susie Q'; 'quell'; and 'baby heroin', with 'Q ball' and 'maq ball' being used in combinations with cocaine and marijuana respectively.
Bupropion (antidepressant)	Oral; IV and IN use also recorded in misuse cases.	<ul> <li>Dopaminergic, stimulant-like activity;</li> <li>Selective inhibition of catecholamines' (NE and DA) reuptake.</li> </ul>	Stimulant-like effects, including euphoria and enhanced motivation.	EMCDDA: notified as NPS (2014).	No	'Welbys', 'wellies', 'dubs' or 'barnies'.
Venlafaxine (antidepressant)	Oral; IV and IN use also recorded in misuse cases.	<ul> <li>Inhibition of 5HT/ NE/DA reuptake with dose-dependent effects, aoting on 5-HT transmission at low doses (&lt;150mg/day); on both 5-HT and NE systems at moderate doses (&gt;150mg/day); and on DA at high doses (&gt;300mg/day);</li> <li>The main active</li> </ul>	Stimulant-like effects, including euphoria and increased sociality; dissociative effects, including distorted sense of time and "numbness".	None	Yes: abrupt discontinuation may be associated with a withdrawal syndrome.	'Baby ecstasy
		<ul> <li>metabolite of</li> <li>venlafaxine,</li> <li>desvenlafaxine, presents</li> <li>with high levels of NE</li> <li>transporter inhibitory</li> <li>activities (further</li> <li>increasing levels of DA</li> <li>turnover in the prefrontal</li> <li>cortex);</li> <li>At high doses it might</li> <li>exhibit some dopamine</li> </ul>				
		<ul> <li>Chronic administration is associated with adaptive changes of D3 receptors, and desensitisation of 5-HT1A and β-adrenergic receptors.</li> </ul>				
Zolpidem, zaleplon, zopiclone (Z-drugs)	Oral; IV and IN use also recorded in misuse cases.	Z-drugs bind to the Q-1 isoform of the benzodiazepine receptor, enhancing GABA inhibitory actions.	CNS depressant: relaxant, sedative and hypnotic effects.	EMCDDA: zaleplon and zopiclone are already regarded as NPS;     ACMD: Class C;     DEA: Schedule IV.	Dependence and/ or tolerance may be developed; risks may be greater with high doses and long-duration treatments.	
Loperamide (antidiarrheal)	Oral; IV and IN use also recorded in misuse cases.	Loperamide binds to peripheral µ-opioid receptors in the gastrointestinal tract at therapeutic doses (2mg, up to 16mg/day).	At high dosages (50–800mg), it may exert cross central opioid effects and be recreationally abused to alleviate symptoms of opioid withdrawal and to achieve feelings of euphoria.	DEA: previously Schedule V owing to high dosages recorded and withdrawal symptoms; then, owing to the low abuse potential reported with normal dosages, was made OTC in 1988.	Dependence and/ or tolerance may be developed.	'Lope dope', 'lope high', 'poor man's methadone'.
Dextromethorphan (antitussive)	Oral; IV and IN use also recorded in misuse cases.	At high doses, acting as a NMDA receptor antagonist, dextromethorphan, and its potent metabolite dextrorphan, inhibit the excitatory amino acid and neurotransmitter glutamate.	Neurobehavioural effects are dose-related, starting from a mild to moderate stimulation with restlessness and euphoria (100–200mg), to a dissociated state characterised by hallucinations, paranoia, perceptual distortions, delusional beliefs, ataxia and out-of-body experiences (>1,000mg).	EMCDDA: regarded as NPS.	It might determine addictions owing to GABAergio/ antiglutamatergio mechanisms, including substance-taking compulsive behaviours, tolerance and autonomio withdrawal symptoms.	'Robo', 'skittle', 'tussin', 'dex', 'triple C'.
Benzydamine (non-steroidal anti-inflammatory)	Oral	The molecular mechanism underlying benzydamine's psychoactive and reinforcing effects is unknown; however, a central cannabinoidergic mechanism of action has been hypothesised.	Used at high doses (500–3,000mg) to achieve stimulant effects on the CNS, including euphoria, hyperreactivity, insomnia; abnormal behaviour; and psychotic symptoms, including paranoia and visual hallucinations.	EMCDDA: regarded as NPS.	No	
Promethazine (antihistamine)	Oral	It is a phenothiazine derivative and a H1 receptor antagonist, and also acts as a direct antagonist at muscarinic (M1) and dopamine (D2) receptors. It is classified as a first-generation antihistamine molecule, which easily penetrates the blood-brain barrier.	Calming and sedating effects are observed. Can be used to enhance effects of other co-ingested substances (e.g. opioids, leading to euphoric or hallucinogenic experiences).	EMCDDA: regarded as NPS.	No	
Hyoscine butylbromide/ scopolamine (antispasmodic)	Oral	Anticholinergic properties exerting potent CNS effects.	Psychoactive effects, including: restlessness, excitement, euphoria, disorientation and characteristic delirium- like states with auditory/ visual/and tactile hallucinations, altered mood and cognitive	None	No	

CNS: central nervous system; NE: norepinephrine; NPS: new psychoactive substance; O1C: over-the-counter; 5-H1: sectorian. Sources: Curr Opin Pediatr, "System Med," Subst Abuse Rehabili", Addict Beham?. Eur Neuropsychopharmacol", J Clin Psychopharmacol", Subst Abuse Rehabili", Hurn Psychopharmacol", Subst Abuse Rehabili", Addict Beham?. Eur Neuropsychopharmacol", J Clin Psychopharmacol", Subst Abuse Rehabili", Hurn Psychopharmacol", Subst Abuse Rehabili", Addict Beham?. Eur Neuropsychopharmacol", J Clin Psychopharmacol", Subst Abuse Rehabili", Addict Beham?. Eur Neuropsychopharmacol", Subst Abuse Rehabili", Addict Beham. Basic Olin Pharmacol Toxicol", J Psychoactive Drugs'', Braz J Psychiatry<sup>®</sup>, Addiction<sup>®</sup>, South Med J<sup>o</sup>, PLoS One<sup>®</sup>, ONS Neurosci Ther<sup>IC</sup>, Riv Psichiatr<sup>®</sup>, Cambridge University Press<sup>44</sup>, Am J Addict Med<sup>®</sup>, Subst Use Misuse<sup>47</sup>, Health Policy<sup>48</sup>