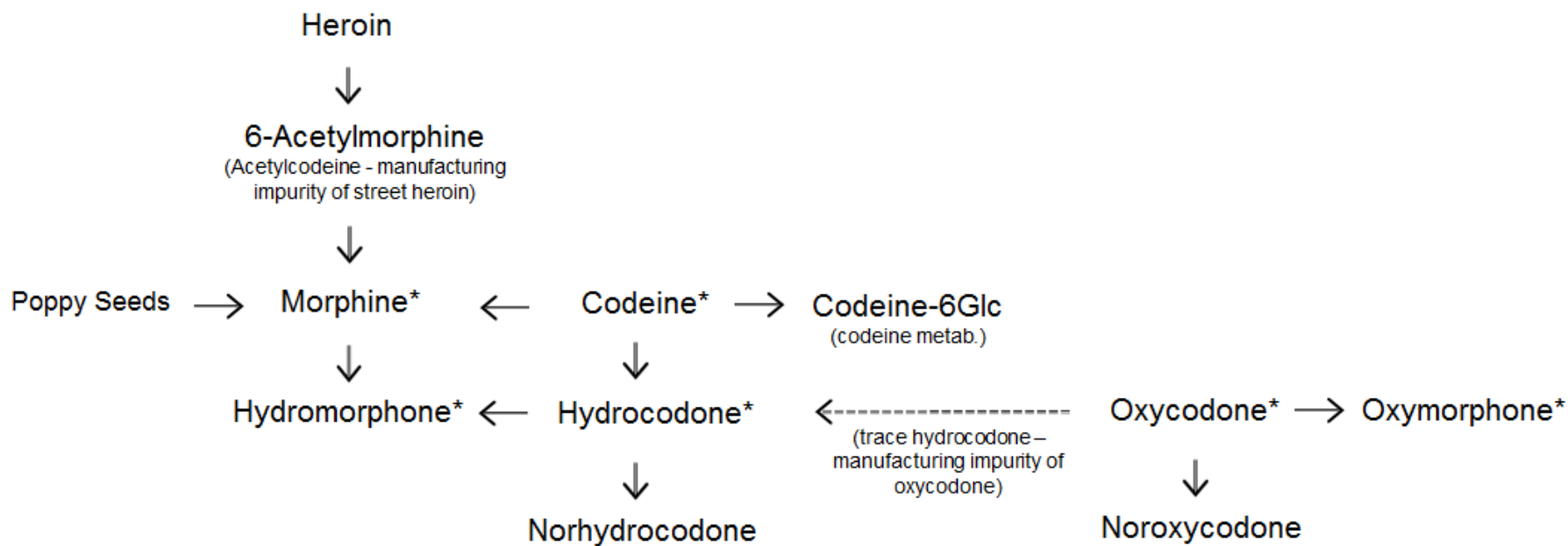


DRUGS OF ABUSE METABOLIC PATHWAYS - REFERENCE DOCUMENT

Figure 1. Principal Opiate Metabolic Pathways

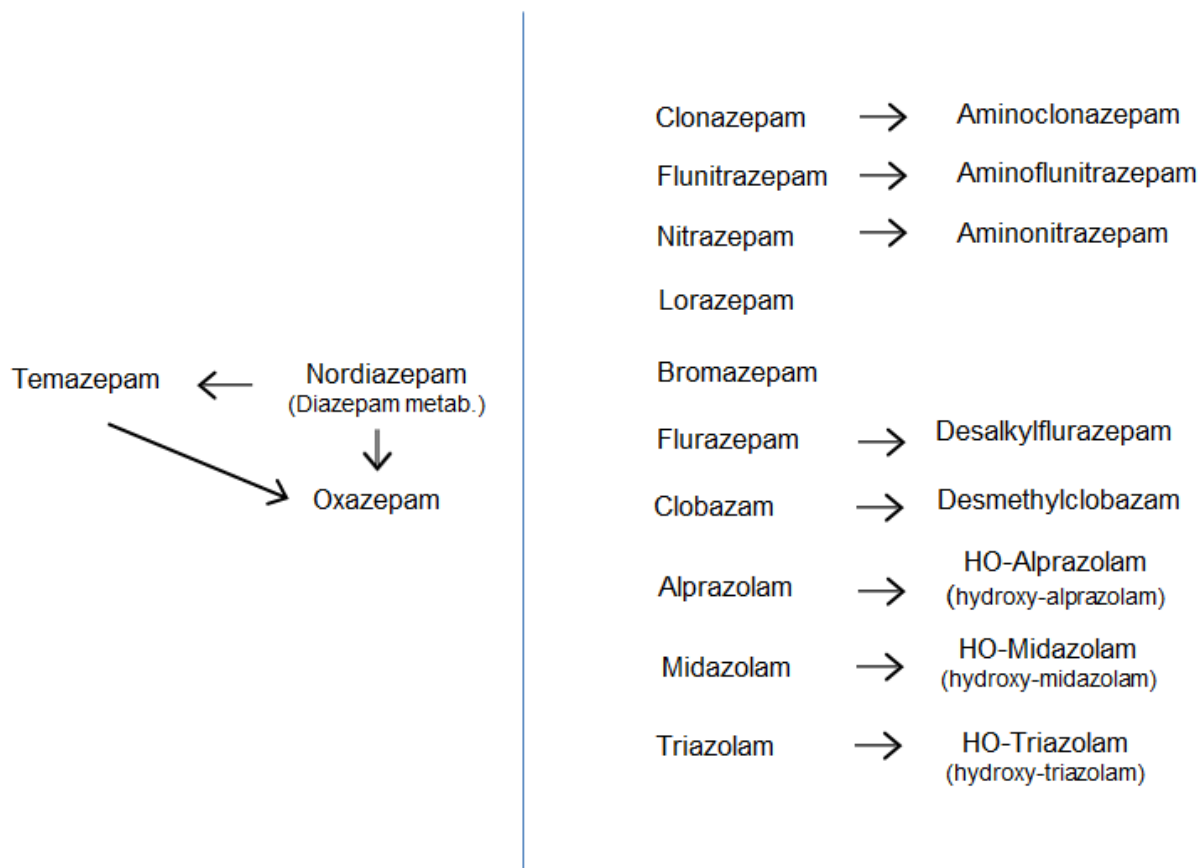


*a compound could be a parent drug or metabolite

NOTE: This diagram includes opiates that can be detected by urine Broad Spectrum Toxicology Screen (BST) offered by LifeLabs ON

DRUGS OF ABUSE METABOLIC PATHWAYS - REFERENCE DOCUMENT

Figure 2. Principal Benzodiazepine Metabolic Pathways

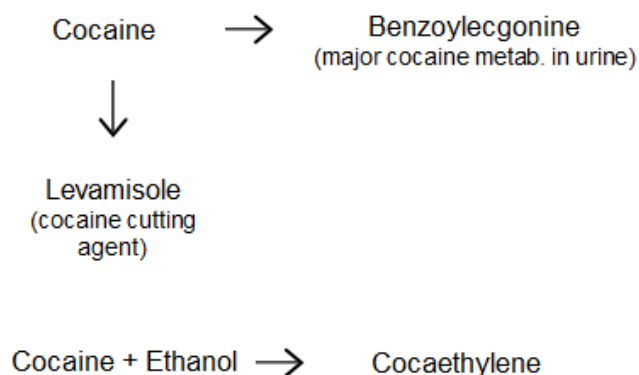


NOTE: This diagram includes benzodiazepines that can be detected by urine Broad Spectrum Toxicology Screen (BST) offered by LifeLabs ON

DRUGS OF ABUSE METABOLIC PATHWAYS - REFERENCE DOCUMENT

Figure 3. Drugs of Abuse Metabolic Pathways

a) Included in the 'Other' category of Broad Spectrum Tox Screen



b) Included in the 'Amphetamines' category of Broad Spectrum Tox Screen



** Methamphetamine reported as the total of the undifferentiated d and l enantiomers. Ephedrine or pseudoephedrine can be detected with high levels of methamphetamine. Both can be used as precursors of illicitly manufactured methamphetamine.

MDA is a metabolite of MDMA and MDEA but can be also abused on its own.

NOTE: This diagram includes compounds that can be detected by urine Broad Spectrum Toxicology Screen (BST) offered by LifeLabs ON

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DRUGS OF ABUSE METABOLIC PATHWAYS - REFERENCE DOCUMENT

Figure 4. Novel Psychoactive Substances (NPS) included in LifeLabs ON Broad Spectrum Tox Screen

Reported under BST Category of:	List of NPS compounds
OPIOIDS	<ul style="list-style-type: none"> Mitragynine ('Kratom')
	Fentanyl Analogues/Derivatives: <ul style="list-style-type: none"> Acetylfentanyl Sufentanyl Alfentanyl
AMPHETAMINES	Substituted Cathinones aka 'Bath Salts': <ul style="list-style-type: none"> Butylone Ethylone MDPV (Methylenedioxypyrovalerone) Mephedrone Methcathinone (also as manufacturing impurity of ephedrine and pseudoephedrine) Methedrone Methylone Pentedrone α-PVP (Desmethyl Pyrovalerone) Other 'Designer Drugs': <ul style="list-style-type: none"> MBDB (N-methyl-1,3-benzodioxolylbutanamine) PMA (<i>para</i>-Methoxyamphetamine) TFMPP (3-Trifluoromethylphenylpiperazine)
CANNABINOIDS	Synthetic Cannabinoids aka 'Spice': <ul style="list-style-type: none"> JWH-018 JWH-019 JWH-073 UR-144 XLR-11

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