TOPIC 9 – DRUG ADDICTION AND THE BRAIN'S REWARD CIRCUITS

9.1. CLASSIFICATION OF PSYCHOACTIVE DRUGS

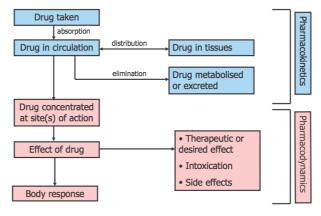
- **Psychoactive drug** = a drug that influences subjective experience and behaviour by acting on the nervous system.
- **Depressants** = decrease neural activity.
- **Stimulants** = increase neural activity.
- **Hallucinogens** = altering effect on perception.

Depressants	Stimulants	Hallucinogens
Sedative/hypnotic:	 Amphetamines; 	• LSD;
 Alcohol; 	 Ecstasy (MDMA)*; 	Ecstasy (MDMA)*;
 Benzodiazepines; 	 Cocaine; 	 PCP;
 Barbiturates; 	 Nicotine; 	 Magic mushrooms;
Cannabis*;	 Caffeine 	Cannabis*;
• GHB.	 Mephedrone; 	Spice;
Narcotics:	• Khat;	• Bath salts;
 Heroin; 	 Methylphenidate; 	 Ayahuasca.
 Morphine. 	 Modafinil; 	•
Organic solvents:	 Armodafinil. 	
• Glue;		
• Petrol.		

- NOTE: In small amounts, alcohol can have a stimulant effect.
- Legality/scheduling does not equal harm/risk of drug.

9.2. PSYCHOPHARMACOLOGY

- How a drug works can be described according to two key processes:
 - Pharmacokinetics = what the body does to the drug.
 - o **Pharmacodynamics** = what the drug does to the body.



9.2.1. PHARMACOKINETICS

- Process:
 - 1) Administration;
 - 2) Absorption;
 - 3) Distribution;
 - 4) Metabolism and Excretion.

9.2.1.1. ADMINISTRATION