

# Drug addiction

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# Drug addiction

## Addiction to psychotropic substances

Natural drugs: marihuana, cannabis

Synthetic drugs: pervitin, extasy, cocain  
alcohol, benzodiazepins  
toluen, trichlorethylen ..

# Drugs

## **Soft drugs- low risk of addiction**

Coffee, tabacs, marihuana, speed,  
alcohol in low intake

## **Hard drugs- high risk of addiction**

heroin, cokain, crack, pervitin, LSD, extasy

# Types of addiction WHO

Alcohol- barbiturates (ethanol, barbiturates)

Amfetamin (amfetamin, metamfetamin, extasy)

Halucinogen (LSD, mushrooms)

Hashish (marihuana, hashish)

Opiates (opium, morphin, codein, heroin)

Inhalation (toluen, chlorine substances)

Cocain (cokain, crack)

# Classification

Drugs from cannabis: marihuana, hashish

Opiates: heroin, braun

Stimulative drugs: cokain, amfetamin (speed), pervitin, extasy  
codein, morphin

Halucinogens: LSD, meskalin, psilocybin

Psychotropic drugs: sedatives, hypnotics

# Situation in Czech republic

1. Alcohol
2. Nicotine
3. Drug abuse and drug addiction
4. Gambling

## Mental addiction

Desire to repeat drugs for pleasant feeling

## Somatic addiction

Unpleasant symptoms in withdrawal of drug  
Abstinence syndrom

# Alcohol poisoning

- |                       |  |
|-----------------------|--|
| 1. Stage – excitation | 0,5 – 1 promil<br>euphoria   |
| 2. Stage- hypnotic    | 1–2 promiles<br>loss of balance and coordination of<br>movement, dysarthria<br>low sensation of pain |
| 3. Stage- narcotic    | above 2 promiles<br>nausea, vomiting, lethargy<br>unconsciousness                                    |
| 4. Stage- asphyctic   | 3,5–5 promiles<br>stop of breathing and circulation<br>death   |



# Signs

Depression of CNS

Impairment of all mental and physical functions

Strong smell of alcohol

Empty bottles around

Impaired consciousness

Deep breathing

Later shallow breathing

Weak rapid pulse

Dilated pupils with poor reaction to light

Vomiting

Hypotermia

Caution- underlying condition: head injury, stroke

hypoglycaemia, heart attack

# First aid

Prevent aspiration of vomiting fluid

Do not induce vomiting

Protect him from the cold

Maintain open airways

Check breathing and circulation

Assess other conditions- head injury ..

In unconsciousness- rescue position, monitor vital signs

CPR

# Opioids

Opium- extract from unripe poppy heads

Papaver somniferum

It contains alkaloids- morphin

Other opioids- codein, pethidin, heroin

Production of poppy: Afganistan, Thailand, Barma, Laos

## Signs

Euphory, painless feeling, phantastical visions, extasy

Happiness

Depressions of breathing, miosis

Somnolence, sopor, unconsciousness

# Poisoning with opioids

## Signs

Classical trias: depression of breathing- low rate, flat breathing  
miosis with reaction of pupils  
unconsciousness

Hypotension, lung oedema, redness of the skin, sleepiness

## First aid

If conscious: monitor vital signs  
avoid aspiration

If unconsciousness: rescue position

## Management

Ventilation, intubation,  
Antidotum- naloxon

# Abstinence symptoms

Desire for drug, tachycardia, tachypnoe

Sweating, watering from the eyes, mydriasis

Muscle pain, spasms ..

# Complications

Infections around injections in the skin

lymphadenitis, lymphangoitis

Hepatitis, HIV

Pneumonia, lung abscesses

Arthritis, osteomyelitis

Bacterial meningitis, mozkové abscesy

Polyneuropathy

# Heroin

It is diacetylmorphin

Produced from morphium

Use

Oraly, snuffing, smoking, i.v., i.m.

Very dangerous

High risk of addiction

Fatal

# Cocain

Erythroxylon coca

Alcaloid

Stimulans, local anaestheticum

Use

Snuffing, smoking, chewing

Signs

Dilation of pupils

High blood pressure, high rate, arrhythmia

Halucinations, vomiting, paranoia

Muscle spasms, Hypothermia,

Risk of stroke, rhabdomyolysis

Unconsciousness

# Marihuana

Dry inflorescence of cannabis sativa

It contains cannabinoids

Different amount of cannabinoids

- 80 types, usually more than 0,3 % of THC

Tetrahydrocannabinol- THC, main effect

Others- CBD, CBN, THCV, CBC.

Different preparation and different quality (Europe, Caribic, Africa, America, India (up to 20 % of THC)

Use with tabacco in cigaretts, pipes, chewing, milk, oil, tee.

Signs:

Good feeling, pleasant dreams, deep sense for music

Smile, euphoria

Muscle pain, imaginary images, unpleasant sensations



# Marihuana

Psychic addiction only

Among soft addictions

The person is able to stop using marihuana

Using marihuana does not lead to fatal situation

The amount for death- 25 000 joints

First aid

To stop smoking joints

Fresh air

Monitor vital signs

# Amphetamins

Pervitin and extasy

## Signs

Nausea, trismus, muscle pain, sweating, tachycardia

Hypothermia, muscle spasm

Loss of coordination of movement, rhabdomyolysis

Renal failure, multiorgan failure

Shock

## First aid

Rescue position

Monitor vital signs

Removal to hospital

# LSD

Diethylamid of lyserg acid

Halucination

The casualty sees what other do not see

He thinks he can fly ..

He sees with fingers...

Somatic addiction is low

It is used in psychiatry

Popular among students in some countries