







INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Projekt:	MO-ME-N-T MOderní MEtody s Novými Technologiemi			
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Operační program:	Vzdělávání pro konkurenceschopnost			
Škola:	Hotelová škola, Vyšší odborná škola hotelnictví a turismu a Jazyková škola s právem státní jazykové zkoušky Poděbrady			
Tematický okruh:	Doping			
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Anotace:	Charakteristika dopingu ve sportu a dělení dopingových látek a metod, za jakým účelem se užívají a jejich vedlejší účinky. Historie vzniku dopingu.			

Doping

- is using of prohibited drugs or methods to improve training and sporting results of an athlete
- it is prohibited mainly because of the health risks and the equality of opportunity

History:

- medieval times essences from plants, mushrooms
- 19th century synthetic substances
- 1896 English cyclist Arthur Linton one of the first deaths
- 1904 doping at Olympics (Thomas Hicks)
- 20th century great boom in using by military forces in the 2nd World War
- 50s and 60s doping supported by state authorities
- 80s blood doping and EPO
- 21st century experiments with genes

Most common substances and methods

- <u>anabolic steroids</u> e.g. testosterone = muscle growth and strength + aggressiveness
- side effects liver damage, acne, cancer...
 - males gynecomastia, testicle atrophy
 - females low voice, hair falling, growth of hairs

- <u>stimulants</u> ephedrine, caffeine, cocaine...= stimulation of heart, lungs and nerves
- side effects addictive, depressions, headaches, insomnia

- diuretics influence on kidneys increased urination used to reduce the weight and to get rid of other forbidden substances
- <u>side effects</u> loss of minerals, dehydration, damage of kidneys
- hormons EPO increases the production of red corpuscles so the oxygen flows faster (can be replaced by staying in high altitudes) insulin processing of fats, sugars and proteins in a body
 - growth hormone growth of organs
- <u>side effects</u> AIDS, increases blood pressure, thickens blood

- **genetic doping** genetic therapy to change info in genes. An athlete gets "good" genes to increase performance. Athletes can increase their strength, endurance or speed.
- <u>side effects</u> cancer, immunity or organ collapse

 There are no long term results, so all the side effects are probably not known yet.
- <u>narcotics</u> morphine, heroine, methadone used to suppress pain or fear
- <u>side effects</u> physically and mentally addictive, nausea, sleepiness
- **blood doping** implementing blood or blood platelets into an athlete's body
- side effects AIDS, rash, fever, allergy,

- At first doping was used for military, religious and working purposes.
- In military it was used to eliminate fear, to suppress tiredness, to increase aggressiveness and to lower the pain threshold.
- Doping was also used in the USA and Mexico for public transport drivers so they were able to work long hours
- Doping got into sport throughout horse-races.
- At first it appeared in cycling, swimming, athletics and rowing.
- However it was used in cycling the most and there was one of the first victims of doping.
- Another sport was boxing they used to put ointments over the face to suppress pain.

- Swimmers inhaled oxygen to increase their endurance
- 50s-60s big boom of doping caused many deaths
- 25 years old cyclist used a lot of pervitine and ephedrine
- 1960 Olympics Danish cyclist fell of his bike during 100km race and he died in hospital after using amphetamine
- Same Olympics a hurdler died because of heroine
- It was shocking when English cyclist died "live" during Tour de France after using doping
- 1968 French cyclist died soon after winning the race
- 1961 a research proved that 17% of footballers in Italy were using doping and 94% of clubs admitted using doping
- 1963 and 1968 two German boxers were beaten to death because of using pervitine