

WORLD ANTI-DOPING AGENCY

**Značaj doping kontrole konja**

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play true  igraj pošteno

**Značaj doping kontrole konja**



1. Integritet konjičkog sporta
2. Dobrobit životinja
3. Integritet ljudi koji žive od konjičkog sporta.
4. Događaji visokog značaja
5. Razvoj antidoping laboratorije

U Engleskoj je doping konja zabranjen zakonom od 1903. godine

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**Integritet konjičkog sporta**



- Obezbediti da takmičenje bude regularno za sve (U 2008. uzorkovano je 3.356 različitih konja u 539 takmičenja).
- Sačuvati ugled konjičkog sporta i svih učesnika.

1950 godina 50% konja u SAD bili stimulisani i tretirani lokalnim anestetima.

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**Dobrobit životinja**



- Zaštiti životinje (sprečiti svaku zloupotrebu, otkriti i otkloniti svaku nameru se konj zloupotrebi)
- Doping kod životinje nije samo poboljšavanje sportske sposobnosti, već i prikrivanje nekog ozbiljnog zdravstvenog stanja.
- U 2007 320.000 konja u "breeding" industriji


Američki uzgajivači su se 1950 želili na impotenciju i sterilitet konja i značajno smanjenje raznolikosti američkih rasa konja (Američki bloodstock).

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**FEI kodeks ponašanja za dobrobit konja**

1. U svim stadijumima priprema i treninga takmičarskih konja, dobrobit konja mora biti prioritarna u odnosu na sve ostalo. To uključuje dobro upravljanje konjima, metodi treninga, potkivanje i transport
2. Konji i takmičari moraju biti dobro pripremljeni, sposobni i u dobrom zdravstvenom stanju pre nego što im se dozvoli da se takmiče. Nije dopuštena upotreba lekova, hirurških procedura koje ugrožavaju dobrobit ili sigurnost konja, takmičenje ždrebni kobilica i zloupotrebu pomoći
3. Takmičenja ne smeju da škode dobrobiti konja. Mora da se obrati posebna pažnja na prostor za takmičenje, podlogu, vremenske uslove, smeštaj na takmičenjima i transport nakon takmičenja

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**FEI kodeks ponašanja za dobrobit konja**

4. Svaki napor mora biti napravljen kako bi se obezbedilo da konji dobiju adekvatnu negu posle takmičenja i da se sa njima humano postupa kada su njihove takmičarske karijere završene. Ovo uključuje adekvatan veterinarski tretman, takmičarske povrede, eutanaziju i penzionisanje konja
5. FEI se zalaže da svi oni koji su uključeni u konjički sport postignu najviše moguće standarde u edukaciji u svom domenu stručnosti koji je povezan sa brigom o takmičarskim konjima.



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## Integritet ljudi



► Zaštiti ljude koji žive od konjičkog sporta (jahače, trenere, odgajivače, vlasnike ...)



## Događaji od velikog značaja

Rolex FEI World cup jumping



HSBC FEI World Cup Eventing



Meydan FEI Nations Cup



FEI World Cup Dressage



## HSBC FEI Classics 2009

• WINNERS OF THE 2009 SEASON

1. Oliver Townend (GBR) - US\$ 150,000
2. Dirk Schrade (GER) - US\$ 75,000
3. Andreas Dibowski - (GER) US\$ 50,000
4. William Fox-Pitt (GBR) - US\$ 33,000
5. Sam Griffiths (AUS) - US\$ 25,000



## Razvoj antidoping laboratorije - primer Italija 1976 godina

In Italy, the antidoping analysis for horse races is carried out in the same laboratories as that for other sports such as cycling, football and track and field athletics. This has the following advantages:

- 1) The same analytical instruments can be used for all sports which means a better and more complete utilization of equipment.
- 2) Experience achieved in the analysis of new drugs in samples from man can be applied to the analysis of horse samples.

On the other hand, there is a large difference between the antidoping control of various sports and that in horse races. In athletics, for example, a list is published by the International Olympic Committee reporting the types of drugs which must not be used. Consequently we know during the analysis for which substances we are looking. In the antidoping control for horse races there is not, at the moment, a similar list, and consequently the analyst has to look for a very large and undefined number of substances. At present we have adopted an analytical procedure for the detection of the following groups of substances: barbiturates, stimulants, tranquilizers, alkaloids and narcotics (Cartoni *et al.*, 1970).



Column	Molecular weight	Apizaco L.		Type of Column Carbowax 20 M		SE-30	
		T=148°C	T=162°C	T=152°C	T=165°C	T=135°C	T=180°C
Compound							
Heptaminol	146	1090	1085	1735	1735		
Amphetamine	135	1147	1162	1675	1660		
Phentermine	149	1180	1195	1620	1635		
Methylamphetamine	130	1202	1210	1645	1650		
Ethylamphetamine	163	1230	1252	1645	1650		
Tranylcypromine	133	1235	1245	1880	1885		
Dimethylamphetamine	163	1260	1670	1660	1270		
Mephentermine	163	1275	1278	1690	1695		
Methoxymethylamphetamine	181	1345	1360	1895	1910		
Ephedrine	165	1370	1360	2150	2170	1360	
Pseudoephedrine	165	1370	1360	2155	2175	1360	
Phenmetrazine	177	1452	1455	2140	2145	1435	
Phendimetrazine	191	1470	1485	2035	2045	1435	
Proprietary	213	1620	1632	1990	2205	1605	1885
Fencamfamin	231	1677	1695	2170	2185	1655	1675
Methylphenidate	233	1685	1695			1705	1715
Caffeine							1805
Cocaine							2190
Cocaine							2365
						T=210°C	T=240°C
Pirradol							2155
Permoline							2240
Ethylmorphine							2450
Morphine							2485
Strychnine							3060



1976



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## Detection and pharmacokinetics of tetrahydrogestronone in horses

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Machnik, M., Gerlach, M., Kietzmann, M., Nieder, F., Thevis, M., Schenk, I., Guddat, S., Ditz, M., Schänzer, W. Detection and Pharmacokinetics of Tetrahydrogestronone in Horses. *J. vet. Pharmacol. Therap.* doi: 10.1111/j.1365-2885.2008.01021.x.

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The anti-doping rules of national and international sport federations ban any use of tetrahydrogestronone (THG) in human as well as in horse sports. Initiated by the THG doping scandals in human sports a method for the detection of 3-oxo-4,9,11-triene steroids in horse blood and urine was developed. The method comprises the isolation of the analytes by a combination of solid phase and liquid-liquid extraction after hydrolysis and solvolysis of the steroid conjugates. The concentrations of THG in blood and urine samples were measured by liquid chromatography-tandem mass spectrometry (LC-MS/MS). A THG excretion study on horses was conducted to verify the method capability for the analysis of post-administration urine samples. In addition, blood samples were collected to allow for determination of the pharmacokinetics of THG in horses. Following the administration of a single oral dose of 25 µg THG per kg bodyweight to 10 horses, samples were collected at appropriate intervals. The plasma levels of THG reached maximal concentrations of 1.5–4.8 ng/mL. Twenty-four hours after the administration plasma levels returned to baseline. In urine, THG was detectable for 36 h. Urinary peak concentrations of total THG ranged from 16 to 216 ng/mL. For the 10 horses tested, the mean plasma clearance of THG was 2250 mL/h/kg and the plasma elimination half-life was 1.9 h.

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2008

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## OI Peking 2008



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## Olimpijske igre 2004 - 2008

Atina 2004	Peking 2008
zuclopenthixol, fluphenazine	capsaicin
flunixin	capsaicin
hydroxydiphenhydramine	capsaicin
betamethasone	capsaicin
	felbinac
	nonivamid



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## Slučaj Cian O'Connor - Atina 2004



- Njegov konj dopingovan je zucklopentiksolum, koji se koristi u lečenju šizofrenije, manija, psihoza i flufenazinom kojim se leči anksioznost i poremećaji ponašanja
- Oduzeta mu zlatna medalja
- Irish Show Jumping Team je diskvalifikovan
- Kažnjen sa 3 meseca i novčanom kaznom
- Nije se žalio

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## Slučaj Ludger Beerbaum - Atina 2004



- Koristio betametazon za lečenje kožnih promena
- FEI Judicial Committee prihvatio razlog, ali zbog činjenice da nije prijavljen u Medication Form
- Konj diskvalifikovan
- Jahač izgubio zlatnu medalju
- Žalbu jahača odbacio CAS

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## Slučaj Tony Andre Hansen - Peking 2008





- Konj diskvalifikovan
- Oduzeta bronzana medalja Norveškoj, prva u konjičkom sportu
- Treće plasirani postali Švajcarci.

Capsaicin is basically rubbed onto the front of the legs and it makes the horses pick up their legs.  
BBC equestrian commentator Michael Tucker

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"The FEI must turn a new leaf in order to guarantee its community a clean and uncorrupt product. The Stevens Commission and the Ljungqvist Commission have both painted a picture that illustrates how negligent we have been in this area thus far and our governing body is completely committed to rectifying the problems we now face, for the benefit of our athletes, our community and our public."  
-HRH Princess Haya

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## FEI Clean sport kampanja

- Doping i neadekvatna upotreba lekova predstavlja ozbiljnu pretnju za integritet i reputaciju konjičkog sporta, zato što daje sportistima prednost i ugrožava dobrobit konja. Iz tog razloga to predstavlja odgovornost svih ljudi uključenih u konjički sport: sportisti, veterinari, treneri, vlasnici, štalsko osoblje, kao i Nacionalne federacije, da svi zajedno poredimo doping i neadekvatnu upotrebu lekova kroz bolju edukaciju i povećanu budnost

- Fair Play
- Dobrobit



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## Fair Play



- Odgovornost takmičara i trenera -promoteri i role model
- Odgovornost uprave FEI- pravila, licenciranje, program takmičenja, krajnja instanca kod žalbi
- Odgovornost sudija, stjuarta, veterinara i drugih zvaničnih lica - znanje, zrelost odluke, samokontrola, fleksibilnost, osećaj pravde
- Odgovornost medija - odgovorno izveštavanje, da se izbegne dramatičnija događaja
- Odgovornost gledalaca - mogućnost izražavanja osećaja, ali bez uticaja na performance konje ili odluku sudija (nagli pokreti, blicevi foto aparata, aplauzi, zvižduci).

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5 April 2010



- The Equine Anti-Doping and Controlled Medication Regulations (EADCMR)
- The Equine Prohibited Substance List



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## Dužnost sportiste



- Athlete's Guide
- Medication Logbook - u kojoj se unose sve supstance sa liste zabranjenih supstanci koje je konj dobio
- The Equine Anti-Doping and Controlled Medication Regulations (EADCMR)
- The Equine Prohibited Substance List
- Da sa novim propisima upozna članove tima: veterinare, trenere, štalsko osoblje,



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## POVREDE ANTIDOPING PRAVILA

- 1) prisustvo zabranjene supstance ili njegovog metabolita u telesnom uzorku
- 2) korišćenja ili pokušaj korišćenja zabranjene supstance ili zabranjenog metoda
- 3) odbijanje doping kontrole
- 4) ometanje ili pokušaj ometanja doping kontrole
- 5) posedovanje doping sredstava
- 6) trgovina ili pokušaj trgovine zabranjenog sredstava bilo neposredno ili posredstvom trećeg lica
- 7) asistiranje, podsticanje, pomaganje, prikrivanje, navođenje, naćaganje, stvaranje uslova ili bilo kojeg drugog vida učestvovanja u povredi ili pokušaju povrede antidoping pravila.

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