

EUROPEAN SCIENCE OPEN FORUM

ESOF 2008

Towards the Perfect Human Machine?

Doping & Society

Ethics & Doping : Ethos, Pathos or Kudos?

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ETHICS and SPORT - ETHICS and DOPING

ETHICS – the way you play the game

ETHOS – shared fundamental values,
attitudes, habits and beliefs

SPORTING INTEGRITY

CONCERN ABOUT SPORT'S ETHOS



“The use of performance-enhancing drugs like steroids is dangerous, and it sends the wrong message -- that there are shortcuts to accomplishment, and that performance is more important than character.” **George W Bush US President 2004**



“Doping is the biggest threat to the credibility of sport in the 21st century”

Jacques Rogge IOC President, 2001

SPORT'S ETHICAL PROBLEM

'I don't think they play fairly'

Alice began, in a rather complaining tone... 'they don't seem to have any rules in particular. At least if there are, nobody attends to them'

Alice's Adventures in Wonderland, Lewis Carroll

SPORTING: INTEGRITY

DEFINING DOPING RULES



IN THE BEGINNING –

In 1965 the first head of the IOC Medical Commission, Sir Arthur Porritt, wrote:

"To define doping is, if not impossible, at best extremely difficult, and yet every one who takes part in competitive sport or who administers it knows exactly what it means. The definition lies not in words but in integrity of character".

CONTEMPORARY DEFINITION OF DOPING WORLD ANTI-DOPING CODE 2003

- Potential to enhance sport performance

Doping is cheating

- Actual or potential health risk to athlete

Harmful to health

- Violation of the spirit of sport

Reputation of sport/athletes as role models

inference is the ethos of sport is important.

WADA SET OUT ETHICAL STANDARDS

WORLD ANTI-DOPING CODE



STANDARDISING - Laboratory Analysis procedures

- Prohibited List
- Testing procedures
- Therapeutic Use Exemptions

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CHANGING DOPING (& ANTI-DOPING) PRACTICES

- Stimulants and narcotics misused
- Testing for stimulants and narcotics
- Evasion of testing
- Synthetic Hormone substances misused – undetectable
- Testing in competition for synthetic hormones too....
- Hormones used out of competition.....
- Introduction of Out of Competition Testing
- Doping using naturally occurring hormones
- Evasion of testing
- Debate about natural hormone production - T/E ratio
- Blood doping - reinfusion of red blood cells
- Blood doping using EPO
- Evasion of testing
- Growth Hormone
- Whereabouts rules - Evasion of testing..... = *deviant behaviour*

CHANGING ETHOS OF ANTI-DOPING PRACTICES

Non – Analytical Positives = non-scientific evidence

Athlete Passports – biological profiling of athlete's blood and urine

In the US – Project Believe

In Australia – The 'Tank' – storage of athletes' samples for 8 years

In cycling – year round independent testing by team management

DRUG TESTING at SUMMER OLYMPIC GAMES

	Athletes Tested		Positive Tests
1968 Mexico City	667		1
1972 Munich	2,079		7
1976 Montreal	786		11
1980 Moscow	645		0
1984 Los Angeles	1,507		12
1988 Seoul	1,598		10
1992 Barcelona	1,848		5
1996 Atlanta	1,923		2
2000 Sydney	2,758		11
2004 Athens	3,667		26
2008 Beijing	4,500		?

EVIDENCE OF A DOPING PROBLEM

Worldwide laboratory test data from 1993 to 2003

No of samples collected in sport increased from
89166 to 151210 per annum

approx 2% analytical positives*

•AAF Adverse Analytical Findings

Source IOC laboratory Statistics

EVIDENCE OF A DOPING PROBLEM

WADA Test data from 2004 – 2007

	TESTS	% AAF*
2004	169,187	1.72
2005	183,337	2.13
2006	198,143	1.96
2007	223,898	1.97

* AAF Adverse Analytical Findings

Question – is there more doping going on?

- is a ~2% problem, a problem?

EVIDENCE FROM TESTOSTERONE: EPITESTOSTERONE RATIO REPORTS

2004	6:1 (previously 10:1)
Post 2004	4:1

Increase in reports

2004	2005	2006	2007
392	1132	1124	1607

Not easily explained by an increase in number of tests and no significant increase in T/E findings determined as doping offences

PERCEPTION OF A PROBLEM (2008)

British Public Survey

A majority of the public are losing faith in the results of Olympic events because of drugs in sport, according to an opinion poll.

A poll for BBC One's Inside Sport found that

58% agreed they had lost faith - against 20% who said they had not.

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ETHICS & DOPING - PATHOS

Pathos – appeals to the audience's emotion

Trying to convince the audience to join in the speaker's beliefs, evoking pity or compassion

Athlete appears as victim, WADA system does not help, as strict liability appears unfair.

Recent changes to WADA Code to permit laboratories to speak out if athlete publicly criticises them.

DOPING BEHAVIOUR

Why use drugs?

“It’s not the winning, it’s the taking part”

Faster

“It’s not the winning, it’s the taking drugs”

Stronger

Longer

“It’s not the winning, it’s the taking drugs tests”

Control the pressure

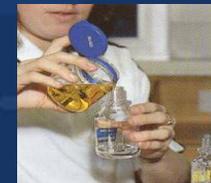
“It’s not the winning, it’s the passing drug tests”

Control the pain

*“It’s not the winning, or the testing,
it’s the suspicion.....”*

Treat an illness

Supplement diet



*Medals won in 2012 should be awarded in 2020
when there might be more certainty the medals
have been correctly awarded.*

PERCEPTION OF A PROBLEM FOR SPORT

Survey of UK elite athletes 1998

Over half (54%) believed that up to 30% of competitors in their sport were using performance enhancing drugs

One in 25 (4%) said that 60% were doing so

Only 3% (and none from weightlifting or rugby league) – believed their sport was clean

Source – The Independent Newspaper

ATHLETE'S PERCEPTION 2008

British Athlete - Dwain Chambers



When asked whether a clean athlete was likely to beat one using drugs in an Olympic final, Chambers added: "It's possible, but the person that's taken drugs has to be having a real bad day. That's what I believe."

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INVESTIGATIONS TO FIND REASONS FOR DOPING

Drugs in sport inquiries and investigations

Dubin Inquiry – Canada 1988

Senate Committee Report – Australia 1990



USATF – USA 2001



BALCO – USA 2003

Congress hearings – USA 2005

Mitchell Report - 2007

PROBLEM FOR SPORT

Reliability of Data = credibility of information

Reliability of testing, random, missed test scenarios

Reliability of definition around testosterone findings

Reliability of EPO findings (Marion Jones, Bernard Lagat, et al)

RELIANCE ON SCIENCE TO GET IT RIGHT

IMPORTANT FOR ATHLETES AND CREDIBILITY OF THE DOPING SYSTEM

Athletes having to compete again against doping inconsistencies. Athletes competing again when others banned.

SPORTING INTEGRITY

RELIANCE ON SCIENCE TO GET IT RIGHT

IMPORTANT FOR ATHLETES AND CREDIBILITY OF THE DOPING SYSTEM

M a r i o n
J o n e s

160 negative tests convicted for lying to Federal Agents

won five medals, three of them gold, at the 2000 Sydney Olympics deflected everything USADA threw at her -- calendars, blood test results, ledgers, statements to investigators.

She dismissed them all.

'Life in the Fast Lane' – Biography of Marion Jones 2004

**“I HAVE ALWAYS BEEN
UNEQUIVOCAL IN MY
OPINION:**

**I AM AGAINST
PERFORMANCE
ENHANCING DRUGS.**

**I HAVE NEVER TAKEN
THEM AND I NEVER
WILL TAKE THEM.”**

ETHICS & DOPING - KUDOS

THE NEW DOPING CELEBRITIES

‘Athletes who have appealed to the public to believe their side of the story, victims of the doping system, unfairly treated, falsely accused, only ever tried doping once, pressured into doping. Relieved to be found out and able to clear their name, explain their side.’

As athlete Angela Issajenko said “Deny, deny, deny”

In the end they will believe you or at least you will believe you.

Future Social Problems ?

Research in France estimates that doping may involve 3-5% of adolescents

BJSM 2007 reported –

one in 100 eleven year olds use drugs to enhance performance in sport

-by age 15 proportion increased from 1.2 to 3%

Use of drugs was given as a reason for winning at least one sporting event by 44% of the children

US Youth Risk Behaviour Survey 2005 4% of students had taken steroids without prescription once or more.

SPORTING KUDOS

Athletes Rely on Testing

How long before the athlete ends up convincing themselves they did not dope?

Or before no one believes the athlete's performance before the drug test results are received ?