

# **BENEFITS AND HARMS OF GENE DOPING**

Mind maps were utilised to gather the public's opinions on the benefits and harms of gene doping to athletes who use this technology, fellow (clean) athletes and other sections of the community. The collective thoughts of the general public (obtained at the "Science behind sporting success" exhibition), Year 12 (aged 16-17) students and Key Stage 4 and 5 students (ages 14-18) students are given below.



# General Public @ "Science behind sporting success" exhibition

### **BENEFITS**

### Athlete

Physiological elite Advancing science (& human race) Ultimate athlete More medals More money

### Fellow clean athletes

### HARMS

- Turn blokes into women Feel guilty Is record true? Everybody abnormal Takes honour away from winning There can be side effects and they can get ill It's our uniqueness that makes life wonderful Long term effects Only available for rich athletes not poor Playing god Where does it end? Sports only? Ruins their reputation -ve role model for kids Could get disqualified
- Immoral Lose Cheated on Less money won Racing something that cheated, robot race Athletes move to other sports Forces others to do same True greats denied recognition Cheated out of life's goal Artificial sport Not level platform

# 

### BENEFITS

### Coaches

Get to win No risk

### Fans

2 competitions, one for clean & one for enhanced athletes Sports more entertaining to watch

### Sports Governing Bodies

Get more medals Get better/more Press More athletes joining

### Press & TV

More events per day, shorter timings More people will be watching & listening Sell more stories = more money More scandal

### HARMS

Damage to reputation if something goes wrong elsewhere Abuse of position Influence drugs

Money, divert cash from gene therapy End up watching a freak show Goals unachievable for fans to reach Dishonest/disrespect, cheat, against Olympic spirit Lied to Playing to see a fixed sport No, no, don't mess about Keep it for gene therapy

No tests Messing about with this, shouldn't Undeserved achievement

Stories change

## University of Leeds Year 12 Conference, July 2012

### BENEFITS

### Athlete

Get golds Can train more, more adrenaline Reputation & money Break more records Rich & famous Respect & good reputation through winning Happy their winning Glory Fame & endorsements Medals

### **Other Athletes**

Better reputation for sport, more adverts Motivation Incentive to work harder Force them to adapt No risk for them Might not work better, might make traditional athletes look better

### HARMS

Guilty Risk of degenerative disease Rich man's technology Prestige of being a winner lost Expensive Health risk Dishonest Unknown side effects Long-term effects after retirement? Unaware of whether it works

Sports reputation ruined Only available to rich Unfair competition Disappointment at having goal/dream taken from them No competition Poor athletes get priced out



### BENEFITS

Other Athletes (continued)

#### Coaches

Increases chances of athletes winning Successful so more people are going to go to them for training Easier job No risk Good for business & reputation

### Fans & General Public

Adds interest to sport More to aim for, role model Pushes athletes more Able to watch super Olympics More money Boosts country's reputation for winning People who have no experience of sport take part Get to see some amazing sport More entertaining Win more fans

### Sporting Organisations

Cash for sports development More sponsorship Advances the sport More money to invest in athletes

#### **Doctors & Scientists**

Reduce steroid use Advances human race Creates reputation & earns cash Researching the limits of the human body More exploration into wonders of human body Money for designing new drugs More jobs More attention Advances technology

### HARMS

More competition Have to work a lot harder Lower self-esteem

Loss of job, trust Fine No Jobs More pressure Not been recognised for coaching skill Misuse of science

Disappointed, cheated More expensive sport Boring to watch Cost to NHS Don't want to pay to watch cheating Get tired of seeing same people win all the time

Bad for sports reputation Negative press Lose integrity Can't afford Sports companies lose money Sport becomes more of a business Science becomes the greatest factor rather than skill or dedication

Potential health issues, mutations Doctors/scientists playing God Risk of creating new diseases Contradicts a doctor's role Ethical dilemma Doctors shouldn't provide potentially harmful treatments Lose job Should concentrate on gene therapy not doping

# Leeds Festival of Science (Key stages 4 & 5), March 2012

### BENEFITS

### Athletes

Country proud Win more medals (4) Girlfriend More money (2) Better life Personal best More fame World record Good for the country They will feel better about themselves Big reputation

### Fellow athletes

Have a better life Other athletes can't come first Keeping reputation

### Coach

Better reputation (2) More money Doesn't affect them Doesn't have to stop competing Furthers career Better teams

### Fans and general public

Good reputation for sport Better to watch Looks good on your nation Your favourite athletes could win More interesting sport to watch

### Sporting organisations

Good for economy More money Good reputation for exciting sport If nobody finds out then it looks good that they won medals Because somebody is wining Looks good for their country

### **Doctors & scientists**

More publications More funding (2) Experiment more on gene development Earn more money (2)

### HARMS

Feel bad Disqualified Banned Might harm the human/body (3) Bad offspring Not allowed to compete Let the country down Could get addicted Get caught Lose previous achievements lose their fame Lifetime ban

Won't want to compete Unfair They will feel cheated & could get angry Harder competition Fans turning against them

Risk might get caught Lose job (2) Fines Hurts their reputation

Lose interest Not pay False hope People could lose money betting Disappointment on athlete

Bad reputation Lots of paperwork Looks bad on the country which is holding it if doctors find out Makes the whole sport look bad Looks negative against them

They will lose their jobs/get the sack (4) No tests Dangerous to the athlete Cost a lot more



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