

# Questions over drug accusations

The positive drug test by Tour de France winner Floyd Landis showed elevated levels of the naturally-occurring steroid testosterone after the critical 17th stage. Although he regained almost eight minutes, experts doubt it could have given such a short-term performance boost

Floyd Landis: Minutes behind leader after each stage			▲ Mountain (TT) Time Trial		
P	(TT) 00:09	7	(TT) 01:00	14	01:29
1	00:11	8	01:00	15	▲ 00:00
2	00:21	9	01:00	16	08:08▲
3	00:16	10	▲ 04:45	17	▲ 00:30
4	00:16	11	▲ 00:00	18	00:30
5	00:28	12	00:00	19	(TT) 00:00
6	00:36	13	01:29	20	00:00

## TESTOSTERONE AND THE RISKS

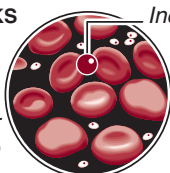
Long term increase in muscle bulk and strength, red blood cell count and aggression

Baldness

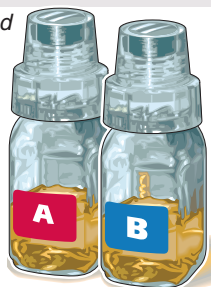
Kidney / liver damage

Enlarged breasts

Shrunk testicles, impotence



Increased red blood cell count boosts oxygen uptake



## TESTING

Urine sample divided into two bottles for analysis – check for **testosterone to epitestosterone** ratio, typically 1:1, but varies by individual  
**Permitted ratio 4:1 (6:1 until this year)**



Higher ratio could be due to increase of one agent or decrease of the other

## DRUG USE 2005

**Anabolic agents 1,864** (of which testosterone 1,132)

All Olympic sports positive tests

Others 80

Hormones 162

Beta-2 agonists 609

Stimulants 509

Cannabinoids 503

Glucocorticosteroids 325

Diuretics/masking agents 246

Sources: WADA, UCI

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