

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

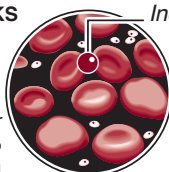
Long term increase in muscle bulk and strength, red blood cell count and aggression

Baldness

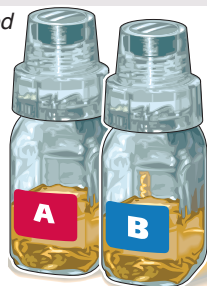
Kidney / liver damage

Enlarged breasts

Shrunkened 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

Beta-2 agonists 609

Stimulants 509

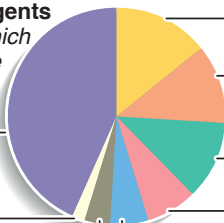
Cannabinoids 503

Glucocorticosteroids 325

Diuretics/masking agents 246

Others 80

Hormones 162



Sources: WADA, UCI

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