

Changes of M1 & M2 in the WADA "PROHIBITED METHODS" List from 2004 to 2012 (M3 "Gen Doping" has been excluded)

2004 → 2005

M1. ENHANCEMENT OF OXYGEN TRANSFER

The following are prohibited:

- a. Blood doping. **Blood doping** is the use of autologous, homologous or heterologous blood or red blood cell products of any origin, other than for **legitimate** medical treatment.
- b. **The Use of products that enhance** the uptake, transport or delivery of oxygen, e.g. **erythropoietins, modified haemoglobin products** including but not limited to **haemoglobin-based blood substitutes, microencapsulated haemoglobin products**, perfluorochemicals, and efaproxiral (RSR13).

M2. PHARMACOLOGICAL, CHEMICAL AND PHYSICAL MANIPULATION

Pharmacological, chemical and physical manipulation is the Use of substances and methods, including masking agents, which alter, attempt to alter or may reasonably be expected

to alter the integrity and validity of **specimens** collected in doping controls.

These include but are not limited to

catheterisation, urine substitution and/or tampering, inhibition of renal excretion and alterations of testosterone and epitestosterone concentrations.

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2004 → 2005

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- b. Artificially enhancing the uptake, transport or delivery of oxygen, including but not limited to perfluorochemicals, efaproxiral (RSR13) and modified haemoglobin products (e.g. haemoglobin-based blood substitutes, microencapsulated haemoglobin products).

M2.

CHEMICAL AND PHYSICAL MANIPULATION

The following is prohibited:

Tampering, or attempting to tamper, in order

to alter the integrity and validity of *Samples* collected in *Doping Controls*. These include but are not limited to *intravenous infusions**, catheterisation, and urine substitution.

* Except as a legitimate acute medical treatment, intravenous infusions are prohibited.

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2005 → 2006

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- b. Artificially enhancing the uptake, transport or delivery of oxygen, including but not limited to perfluorochemicals, efaproxiral (RSR13) and modified haemoglobin products (e.g. haemoglobin-based blood substitutes, microencapsulated haemoglobin products).

M2. CHEMICAL AND PHYSICAL MANIPULATION

The following is prohibited:

Tampering, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected in *Doping Controls*.

These include but are not limited to **intravenous infusions***, catheterisation, and urine substitution.

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M2. CHEMICAL AND PHYSICAL MANIPULATION

- a. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected *during Doping Controls* is prohibited.

These include but are not limited to catheterisation, urine substitution and/or alteration.

- b. *Intravenous infusions are prohibited, except as a legitimate acute medical treatment.*

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2006 → 2007

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M2. CHEMICAL AND PHYSICAL MANIPULATION

- a. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Controls* is prohibited. These include but are not limited to catheterisation, urine substitution and/or alteration.
- b. Intravenous infusions are prohibited, except as a legitimate **acute** medical treatment.

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M2. CHEMICAL AND PHYSICAL MANIPULATION

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Controls* is prohibited. These include but are not limited to catheterisation, urine substitution and/or alteration.
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2007 → 2008

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M2. CHEMICAL AND PHYSICAL MANIPULATION

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Controls* is prohibited. These include but are not limited to catheterisation, urine substitution and/or alteration.
2. Intravenous infusions **are** prohibited, **except as a legitimate medical treatment**.

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M2. CHEMICAL AND PHYSICAL MANIPULATION

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Controls* is prohibited. These include but are not limited to catheterisation, urine substitution and/or alteration.
2. Intravenous infusion is prohibited. In an acute medical situation where this method is deemed necessary, a retroactive Therapeutic Use Exemption will be required.

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2. Intravenous infusions are prohibited except in the management of surgical procedures, medical emergencies or clinical investigations.

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M2. CHEMICAL AND PHYSICAL MANIPULATION

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Controls* is prohibited. These include but are not limited to catheterisation, urine substitution and/or **adulteration (e.g. proteases)**.
2. Intravenous infusions are prohibited **except for those legitimately received in the course of hospital admissions** or clinical investigations.

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M2. CHEMICAL AND PHYSICAL MANIPULATION

The following is prohibited:

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Control* is prohibited. These include but are not limited to catheterisation, urine substitution and/or adulteration (e.g. proteases).
2. Intravenous infusions are prohibited except for those legitimately received in the course of hospital admissions or clinical investigations.
3. **Sequential withdrawal, manipulation and reinfusion of whole blood into the circulatory system is prohibited.**

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The following **is** prohibited:

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Control* is prohibited. These include but are not limited to **catheterisation**, urine substitution and/or adulteration (e.g. proteases).
2. Intravenous infusions are prohibited except for those legitimately received in the course of hospital admissions or clinical investigations.
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M2. CHEMICAL AND PHYSICAL MANIPULATION

The following are prohibited:

1. *Tampering*, or attempting to tamper, in order to alter the integrity and validity of *Samples* collected during *Doping Control* is prohibited. These include but are not limited to urine substitution and/or adulteration (e.g. proteases).
2. Intravenous infusions and/or injections of more than 50 mL per 6 hour period are prohibited except for those legitimately received in the course of hospital admissions or clinical investigations.
3. Sequential withdrawal, manipulation and reintroduction of any quantity of whole blood into the circulatory system.

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