FIFA
For the Game. For the World.

ČLANOVIMA FIFA-E I KONFEDERACIJAMA

CIRKULARNO PISMO BR. 1567

Zurich, prosinac 2016.

WADA Zabranjena lista 2017. – stupa na snagu u siječnju 2017.

Poštovani,

FIFA želi podsjetiti svoje saveze članove, konfederacije, kao i sve igrače, klubove i prateće osoblje igrača da Lista zabranjenih supstanci i metoda 2017., koju je izdala WADA u skladu sa Svjetskim antidoping kodeksom, stupa na snagu 1. siječnja 2017. U prilogu se nalazi sažetak promjena na Zabranjenoj listi 2017., uključujući Zabranjenu listu 2017.

FIFA podsjeća sve igrače kako je njihova dužnost osigurati da ne uzimaju bilo kakve zabranjene supstance te da se, u slučaju bilo kakve sumnje, informiraju o proizvodima i supstancama.

Zahvaljujemo vam na vašoj suradnji. Ukoliko imate bilo kakvih pitanja, slobodno kontaktirajte Antidoping odjel FIFA-e na medical@fifa.org.

S poštovanjem,
FIFA

Zvonimir Boban
zamjenik glavne tajnice (nogomet)

Kopija: - WADA Zabranjena lista 2017.
- Sažetak promjena na WADA Zabranjenoj listi 2017.

Kopija: - Vijeće FIFA-e
- Zdravstvena komisija
- WADA

SUMMARY OF MAJOR MODIFICATIONS AND EXPLANATORY NOTES

2017 PROHIBITED LIST

Substances and methods prohibited at all times (In- and Out-of-Competition)

Prohibited Substances

S1 ANABOLIC AGENTS

- Compounds boldenone, boldione, 19-norandrostenedione, and nandrolone have been transferred and 19-norandrostenediol added to the S1.b section because they can be produced endogenously at low concentrations. This change does not affect the prohibited status of these substances. The interpretation and reporting of findings for these substances is addressed in specific Technical Documents (TD2016IRMS and/or TD2016NA).
- 5α-androst-2-ene-17-one, commonly known as "Delta-2" or 2-androstenone, was added as an example of metabolite of DHEA, more recently found in dietary supplements.

S2 PEPTIDE HORMONES, GROWTH FACTORS, RELATED SUBSTANCES AND MIMETICS

- To extend the scope of Erythropoietic Stimulating Agents, GATA inhibitors (e.g. K-11706) and Transforming Growth Factor- β (TGF-β) inhibitors (e.g. sotatercept, luspatercept) were added.
- The International Nonproprietary Name (INN) of FG-4592, roxadustat, was added.
- Molidustat was added as another example of HIF stabilizer.
- Cobalt: It is re-iterated that vitamin B12, which contains cobalt, is not prohibited.

S3 BETA-2-AGONISTS

- The reference to isomers was simplified.
- Examples of selective and non-selective beta-2-agonists were added (fenoterol, formoterol, higenamine, indacaterol, olodaterol, procaterol, reproterol, salbutamol, salmeterol, terbutaline, vilanterol).
- Higenamine is documented to be a constituent of the plant *Tinospora crispa*, which can be found in some dietary supplements and is a non-selective beta-2-agonist.
- Dosing parameters of salbutamol were refined to make it clear that the full 24 hour dose should not be administered at one time.
- The maximum dosage for salmeterol was stated according to the manufacturers' recommendations.
- Studies are ongoing to establish an appropriate urinary threshold concentration for inhaled salmeterol. At present, the Technical Document TD2015MRPL recommends not to report salmeterol below 10 ng/mL.

S4 HORMONE AND METABOLIC MODULATORS

- Androsta-3,5-diene-7,17-dione (arimistane) was added as a new example of aromatase inhibitor.

Prohibited Methods

M1 MANIPULATION OF BLOOD AND BLOOD COMPONENTS

- Supplemental oxygen administered by inhalation, but not intravenously, is permitted. To clarify this, M1.2 now reads "*excluding supplemental oxygen by inhalation*".

Substances and Methods Prohibited In-Competition

S6 STIMULANTS

- Lisdexamfetamine was added to S6.a; it is an inactive pro-drug of amfetamine.
- In the absence of an INN for methylhexaneamine, its International Union of Pure and Applied Chemistry (IUPAC) name, 4-methylhexan-2-amine, was added. A number of other synonyms exist for methylhexaneamine including: 1,3-dimethylamylamine, dimethylpentylamine; methylhexamine; methylhexanamine; 1,3-dimethylpentylamine.
- Regular food consumption will not yield sufficient levels of phenylethylamine to result in an *Adverse Analytical Finding*.

S7 NARCOTICS

- Nicomorphine was added. It is an opioid analgesic drug, which is converted to morphine following administration.

S9 GLUCOCORTICOIDS

- After consideration of stakeholders' comments, no changes were made in this section for 2017.

MONITORING PROGRAM

The following were added to establish patterns of use:

- Codeine;
- Concurrent use of multiple beta-2-agonists.

THE WORLD ANTI-DOPING CODE

INTERNATIONAL STANDARD

PROHIBITED LIST

JANUARY 2017

WORLD ANTI-DOPING AGENCY
play true

The official text of the *Prohibited List* shall be maintained by *WADA* and shall be published in English and French. In the event of any conflict between the English and French versions, the English version shall prevail.

This List shall come into effect on 1 January 2017

SUBSTANCES & METHODS
PROHIBITED AT ALL TIMES

(IN- AND OUT-OF-COMPETITION)

IN ACCORDANCE WITH ARTICLE 4.2.2 OF THE WORLD ANTI-DOPING CODE, ALL *PROHIBITED SUBSTANCES* SHALL BE CONSIDERED AS *"SPECIFIED SUBSTANCES"* EXCEPT SUBSTANCES IN CLASSES S1, S2, S4.4, S4.5, S6.A, AND *PROHIBITED METHODS* M1, M2 AND M3.

PROHIBITED SUBSTANCES

S0 NON-APPROVED SUBSTANCES

Any pharmacological substance which is not addressed by any of the subsequent sections of the *List* and with no current approval by any governmental regulatory health authority for human therapeutic use (e.g. drugs under pre-clinical or clinical development or discontinued, designer drugs, substances approved only for veterinary use) is prohibited at all times.

S1 ANABOLIC AGENTS

Anabolic agents are prohibited.

1. ANABOLIC ANDROGENIC STEROIDS (AAS)

a. Exogenous* AAS, including:

1-Aandrostenediol (5α-androst-1-ene-3β,17β-diol);
1-Androstenedione (5α-androst-1-ene-3,17-dione);
1-Testosterone (17β-hydroxy-5α-androst-1-en-3-one);
4-Hydroxytestosterone (4,17β-dihydroxyandrost-4-en-3-one);
Bolandiol (estr-4-ene-3β,17β-diol);
Bolasterone;
Calusterone;
Clostebol;
Danazol ([1,2]oxazolo[4',5':2,3]pregna-4-en-20-yn-17α-ol);
Dehydrochlormethyltestosterone (4-chloro-17β-hydroxy-17α-methylandrosta-1,4-dien-3-one);
Desoxymethyltestosterone (17α-methyl-5α-androst-2-en-17β-ol);
Drostanolone;
Ethylestrenol (19-norpregna-4-en-17α-ol);
Fluoxymesterone;
Formebolone;
Furazabol (17α-methyl [1,2,5]oxadiazolo[3',4':2,3]-5α-androstan-17β-ol);
Gestrinone;
Mestanolone;
Mesterolone;
Metandienone (17β-hydroxy-17α-methylandrosta-1,4-dien-3-one);
Metenolone;
Methandriol;
Methasterone (17β-hydroxy-2α,17α-dimethyl-5α-androstan-3-one);
Methyldienolone (17β-hydroxy-17α-methylestra-4,9-dien-3-one);
Methyl-1-testosterone (17β-hydroxy-17α-methyl-5α-androst-1-en-3-one);
Methylnortestosterone (17β-hydroxy-17α-methylestr-4-en-3-one);
Methyltestosterone;
Metribolone (methyltrienolone, 17β-hydroxy-17α-methylestra-4,9,11-trien-3-one);
Mibolerone;
Norboletone;
Norclostebol;
Norethandrolone;
Oxabolone;
Oxandrolone;
Oxymesterone;
Oxymetholone;
Prostanozol (17β-[(tetrahydropyran-2-yl)oxy]-1'H-pyrazolo[3,4:2,3]-5α-androstane);
Quinbolone;
Stanozolol;
Stenbolone;
Tetrahydrogestrinone (17-hydroxy-18a-homo-19-nor-17α-pregna-4,9,11-trien-3-one);
Trenbolone (17β-hydroxyestr-4,9,11-trien-3-one);

and other substances with a similar chemical structure or similar biological effect(s).

b. Endogenous AAS when administered exogenously:**

19-Norandrostenediol (estr-4-ene-3,17-diol);
19-Norandrostenedione (estr-4-ene-3,17-dione);
Androstenediol (androst-5-ene-3β,17β-diol);
Androstenedione (androst-4-ene-3,17-dione);
Boldenone;
Boldione (androsta-1,4-diene-3,17-dione);
Dihydrotestosterone (17β-hydroxy-5α-androstan-3-one);
Nandrolone (19-nortestosterone);
Prasterone (dehydroepiandrosterone, DHEA, 3β-hydroxyandrost-5-en-17-one);
Testosterone;

and their metabolites and isomers, including but not limited to:

3β-Hydroxy-5α-androstan-17-one;
5α-Androst-2-ene-17-one;
5α-Androstane-3α,17α-diol;
5α-Androstane-3α,17β-diol;
5α-Androstane-3β,17α-diol;
5α-Androstane-3β,17β-diol;
5β-Androstane-3α,17β-diol;
7α-Hydroxy-DHEA;
7β-Hydroxy-DHEA;
4-Androstenediol (androst-4-ene-3β, 17β-diol);
5-Androstenedione (androst-5-ene-3,17-dione);
7-Keto-DHEA;
19-Norandrosterone;
19-Noretiocholanolone;
Androst-4-ene-3α,17α-diol;
Androst-4-ene-3α,17β-diol;
Androst-4-ene-3β,17α-diol;
Androst-5-ene-3α,17α-diol;
Androst-5-ene-3α,17β-diol;
Androst-5-ene-3β,17α-diol;
Androsterone;
Epi-dihydrotestosterone;
Epitestosterone;
Etiocholanolone.

2. OTHER ANABOLIC AGENTS

Including, but not limited to:

- Clenbuterol;
- Selective androgen receptor modulators (SARMs, e.g. andarine and ostarine);
- Tibolone;
- Zeranol;
- Zilpaterol.

For purposes of this section:

* "exogenous" refers to a substance which is not ordinarily produced by the body naturally.

** "endogenous" refers to a substance which is ordinarily produced by the body naturally.

S2 PEPTIDE HORMONES, GROWTH FACTORS, RELATED SUBSTANCES, AND MIMETICS

The following substances, and other substances with similar chemical structure or similar biological effect(s), are prohibited:

1. Erythropoietin-Receptor agonists:

1.1 Erythropoiesis-Stimulating Agents (ESAs) including e.g.
Darbepoietin (dEPO);
Erythropoietins (EPO);
EPO-Fc;
EPO-mimetic peptides (EMP), e.g. CNTO 530 and peginesatide;
GATA inhibitors, e.g. K-11706;
Methoxy polyethylene glycol-epoetin beta (CERA);
Transforming Growth Factor-β (TGF-β) inhibitors, e.g. sotatercept, luspatercept;

1.2 Non-erythropoietic EPO-Receptor agonists, e.g.
ARA-290;
Asialo EPO;
Carbamylated EPO.

2. Hypoxia-inducible factor (HIF) stabilizers, e.g. cobalt, molidustat and roxadustat (FG-4592); and HIF activators, e.g. argon and xenon.

3. Chorionic Gonadotrophin (CG) and Luteinizing Hormone (LH) and their releasing factors, e.g. buserelin, gonadorelin and leuprorelin, in males.

4. Corticotrophins and their releasing factors, e.g. corticorelin.

5. Growth Hormone (GH) and its releasing factors including:
   - Growth Hormone Releasing Hormone (GHRH) and its analogues, e.g. CJC-1295, sermorelin and tesamorelin;
   - Growth Hormone Secretagogues (GHS), e.g. ghrelin and ghrelin mimetics, e.g. anamorelin and ipamorelin;
   - GH-Releasing Peptides (GHRPs), e.g. alexamorelin, GHRP-6, hexarelin, and pralmorelin (GHRP-2).

Additional prohibited growth factors:

Fibroblast Growth Factors (FGFs);
Hepatocyte Growth Factor (HGF);
Insulin-like Growth Factor-1 (IGF-1) and its analogues;
Mechano Growth Factors (MGFs);
Platelet-Derived Growth Factor (PDGF);
Vascular-Endothelial Growth Factor (VEGF) and any other growth factor affecting muscle, tendon or ligament protein synthesis/degradation, vascularisation, energy utilization, regenerative capacity, or fibre type switching.

S3 BETA-2 AGONISTS

All selective and non-selective beta-2 agonists, including all optical isomers, are prohibited.

Including, but not limited to:
Fenoterol;
Formoterol;
Higenamine;
Indacaterol;
Olodaterol;
Procaterol;
Reproterol;
Salbutamol;
Salmeterol;
Terbutaline;
Vilanterol.

Except:
- Inhaled salbutamol: maximum 1600 micrograms over 24 hours, not to exceed 800 micrograms every 12 hours;
- Inhaled formoterol: maximum delivered dose of 54 micrograms over 24 hours;
- Inhaled salmeterol: maximum 200 micrograms over 24 hours.

The presence in urine of salbutamol in excess of 1000 ng/mL or formoterol in excess of 40 ng/mL is presumed not to be an intended therapeutic use of the substance and will be considered as an *Adverse Analytical Finding* (*AAF*) unless the *Athlete* proves, through a controlled pharmacokinetic study, that the abnormal result was the consequence of the use of the therapeutic dose (by inhalation) up to the maximum dose indicated above.

S4 HORMONE AND METABOLIC MODULATORS

The following hormone and metabolic modulators are prohibited:

1. Aromatase inhibitors including, but not limited to:
   4-Androstene-3,6,17 trione (6-oxo);
   Aminoglutethimide;
   Anastrozole;
   Androsta-1,4,6-triene-3,17-dione (androstatrienedione);
   Androsta-3,5-diene-7,17-dione (arimistane);
   Exemestane;
   Formestane;
   Letrozole;
   Testolactone.

2. Selective estrogen receptor modulators (SERMs) including, but not limited to:
   Raloxifene;
   Tamoxifen;
   Toremifene.

3. Other anti-estrogenic substances including, but not limited to:
   Clomiphene;
   Cyclofenil;
   Fulvestrant.

4. Agents modifying myostatin function(s) including, but not limited, to: myostatin inhibitors.

5. Metabolic modulators:

5.1 Activators of the AMP-activated protein kinase (AMPK), e.g. AICAR; and
Peroxisome Proliferator Activated Receptor δ (PPARδ) agonists, e.g. GW 1516;

5.2 Insulins and insulin-mimetics;

5.3 Meldonium;

5.4 Trimetazidine.

S5 DIURETICS AND MASKING AGENTS

The following diuretics and masking agents are prohibited, as are other substances with a similar chemical structure or similar biological effect(s).

Including, but not limited to:

- Desmopressin; probenecid; plasma expanders, e.g. glycerol and intravenous administration of albumin, dextran, hydroxyethyl starch and mannitol;
- Acetazolamide; amiloride; bumetanide; canrenone; chlortalidone; etacrynic acid; furosemide; indapamide; metolazone; spironolactone; thiazides, e.g. bendroflumethiazide, chlorothiazide and hydrochlorothiazide; triamterene and vaptans, e.g. tolvaptan.

Except:

- Drospirenone; pamabrom; and ophthalmic use of carbonic anhydrase inhibitors (e.g. dorzolamide, brinzolamide);
- Local administration of felypressin in dental anaesthesia.

The detection in an *Athlete's Sample* at all times or *In-Competition*, as applicable, of any quantity of the following substances subject to threshold limits: formoterol, salbutamol, cathine, ephedrine, methylephedrine and pseudoephedrine, in conjunction with a diuretic or masking agent, will be considered as an *Adverse Analytical Finding (AAF)* unless the *Athlete* has an approved *Therapeutic Use Exemption (TUE)* for that substance in addition to the one granted for the diuretic or masking agent.

PROHIBITED METHODS

M1 MANIPULATION OF BLOOD AND BLOOD COMPONENTS

The following are prohibited:

1. The *Administration* or reintroduction of any quantity of autologous, allogenic (homologous) or heterologous blood, or red blood cell products of any origin into the circulatory system.

2. 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 and microencapsulated haemoglobin products, excluding supplemental oxygen by inhalation.

3. Any form of intravascular manipulation of the blood or blood components by physical or chemical means.

M2 CHEMICAL AND PHYSICAL MANIPULATION

The following are prohibited:

1. *Tampering*, or *Attempting to Tamper*, to alter the integrity and validity of *Samples* collected during *Doping Control*.
Including, but 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 except for those legitimately received in the course of hospital admissions, surgical procedures or clinical investigations.

M3 GENE DOPING

The following, with the potential to enhance sport performance, are prohibited:

1. The transfer of polymers of nucleic acids or nucleic acid analogues.

2. The use of normal or genetically modified cells.

SUBSTANCES & METHODS
PROHIBITED *IN-COMPETITION*

IN ADDITION TO THE CATEGORIES S0 TO S5 AND M1 TO M3 DEFINED ABOVE, THE FOLLOWING CATEGORIES ARE PROHIBITED *IN-COMPETITION*:

PROHIBITED SUBSTANCES

S6 STIMULANTS

All stimulants, including all optical isomers, e.g. *d*- and *l*- where relevant, are prohibited.

Stimulants include:

a: Non-Specified Stimulants:

Adrafinil;
Amfepramone;
Amfetamine;
Amfetaminil;
Amiphenazole;
Benfluorex;
Benzylpiperazine;
Bromantan;
Clobenzorex;
Cocaine;
Cropropamide;
Crotetamide;
Fencamine;
Fenetylline;
Fenfluramine;
Fenproporex;
Fonturacetam [4-phenylpiracetam (carphedon)];
Furfenorex;
Lisdexamfetamine;
Mefenorex;
Mephentermine;
Mesocarb;
Metamfetamine(*d*-);
p-methylamphetamine;
Modafinil;
Norfenfluramine;
Phendimetrazine;
Phentermine;
Prenylamine;
Prolintane.

A stimulant not expressly listed in this section is a *Specified Substance*.

b: Specified Stimulants.

Including, but not limited to:

4-Methylhexan-2-amine (methylhexaneamine);
Benzfetamine;
Cathine**;
Cathinone and its analogues, e.g. mephedrone, methedrone, and α- pyrrolidinovalerophenone;
Dimethylamphetamine;
Ephedrine***;
Epinephrine**** (adrenaline);
Etamivan;
Etilamfetamine;
Etilefrine;
Famprofazone;
Fenbutrazate;
Fencamfamin;
Heptaminol;
Hydroxyamfetamine (parahydroxyamphetamine);
Isometheptene;
Levmetamfetamine;
Meclofenoxate;
Methylenedioxymethamphetamine;
Methylephedrine***;
Methylphenidate;
Nikethamide;
Norfenefrine;
Octopamine;
Oxilofrine (methylsynephrine);
Pemoline;
Pentetrazol;
Phenethylamine and its derivatives;
Phenmetrazine;
Phenpromethamine;
Propylhexedrine;
Pseudoephedrine*****;

Selegiline;
Sibutramine;
Strychnine;
Tenamfetamine (methylenedioxyamphetamine);
Tuaminoheptane;

and other substances with a similar chemical structure or similar biological effect(s).

Except:

- Clonidine;
- Imidazole derivatives for topical/ophthalmic use and those stimulants included in the 2017 Monitoring Program*.

* Bupropion, caffeine, nicotine, phenylephrine, phenylpropanolamine, pipradrol, and synephrine: These substances are included in the 2017 Monitoring Program, and are not considered *Prohibited Substances*.

** Cathine: Prohibited when its concentration in urine is greater than 5 micrograms per milliliter.

*** Ephedrine and methylephedrine: Prohibited when the concentration of either in urine is greater than 10 micrograms per milliliter.

**** Epinephrine (adrenaline): Not prohibited in local administration, e.g. nasal, ophthalmologic, or co-administration with local anaesthetic agents.

***** Pseudoephedrine: Prohibited when its concentration in urine is greater than 150 micrograms per milliliter.

S7 NARCOTICS

Prohibited:

Buprenorphine;
Dextromoramide;
Diamorphine (heroin);
Fentanyl and its derivatives;
Hydromorphone;
Methadone;
Morphine;
Nicomorphine;
Oxycodone;
Oxymorphone;
Pentazocine;
Pethidine.

S8 CANNABINOIDS

Prohibited:

- Natural, e.g. cannabis, hashish and marijuana, or synthetic Δ9-tetrahydrocannabinol (THC).
- Cannabimimetics, e.g. "Spice", JWH-018, JWH-073, HU-210.

S9 GLUCOCORTICOIDS

All glucocorticoids are prohibited when administered by oral, intravenous, intramuscular, or rectal routes.

SUBSTANCES PROHIBITED IN PARTICULAR SPORTS

P1 ALCOHOL

Alcohol (ethanol) is prohibited *In-Competition* only, in the following sports. Detection will be conducted by analysis of breath and/or blood. The doping violation threshold is equivalent to a blood alcohol concentration of 0.10 g/L.

- Air Sports (FAI)
- Archery (WA)
- Automobile (FIA)
- Powerboating (UIM)

P2 BETA-BLOCKERS

Beta-blockers are prohibited *In-Competition* only, in the following sports, and also prohibited *Out-of-Competition* where indicated.

- Archery (WA)*
- Automobile (FIA)
- Billiards (all disciplines) (WCBS)
- Darts (WDF)
- Golf (IGF)
- Shooting (ISSF, IPC)*
- Skiing/Snowboarding (FIS) in ski jumping, freestyle aerials/halfpipe and snowboard halfpipe/big air
- Underwater sports (CMAS) in constant-weight apnoea with or without fins, dynamic apnoea with and without fins, free immersion apnoea, Jump Blue apnoea, spearfishing, static apnoea, target shooting, and variable weight apnoea.

*Also prohibited *Out-of-Competition*

Including, but not limited to:

Acebutolol;
Alprenolol;
Atenolol;
Betaxolol;
Bisoprolol;
Bunolol;
Carteolol;
Carvedilol;
Celiprolol;
Esmolol;
Labetalol;
Levobunolol;
Metipranolol;
Metoprolol;
Nadolol;
Oxprenolol;
Pindolol;
Propranolol;
Sotalol;
Timolol.

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