The World Anti-Doping Agency (WADA) was established in 1999 as an international, independent agency composed and funded equally by the Sports Movement and Governments of the world. Its key activities include scientific research, education, developing of anti-doping capacities and monitoring of the World Anti-Doping Code (Code) – the document harmonizing anti-doping policies in all sport and all countries.

The Jamaica Anti-Doping Commission (JADCO) is the National Anti-Doping Organization designated by the Government of Jamaica as the agency responsible for regulating and controlling doping in sport. JADCO has several functions including creating anti-doping rules, disseminating information, implementing public education programmes and testing athletes.

JADCO
Jamaica Anti-Doping Commission
Committed to the Fight Against Doping in Sport

2021 PROHIBITED LIST

In partnership with

WORLD ANTI-DOPING AGENCY
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TABLE OF CONTENTS

Please note that the list of examples of medical conditions below is not inclusive.

SUBSTANCES & METHODS PROHIBITED AT ALL TIMES

S0 Non-approved substances
S1 Anabolic agents.
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. male hypogonadism.
S2 Peptide hormones, growth factors, related substances, and mimetics
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. anaemia, male hypogonadism, growth hormone deficiency.
S3 Beta-2 agonists
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. asthma and other respiratory disorders.
S4 Hormone and metabolic modulators
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. breast cancer, diabetes, infertility (female), polycystic ovarian syndrome.
S5 Diuretics and masking agents
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. heart failure, hypertension.
M1 – M2 – M3 Prohibited Methods

SUBSTANCES & METHODS PROHIBITED IN-COMPETITION

S6 Stimulants
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. anaphylaxis, attention deficit hyperactivity disorders (ADHD), cold and influenza symptoms.
S7 Narcotics
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. pain, including from muscoskeletal injuries.
S8 Cannabinoids
S9 Glucocorticoids
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. allergy, anaphylaxis, asthma, inflammatory bowel disease.

SUBSTANCES PROHIBITED IN PARTICULAR SPORTS

P1 Beta-blockers
Some of these substance(s) may be found, without limitation, in medications used for the treatment of e.g. heart failure, hypertension.

THE 2021 PROHIBITED LIST WORLD ANTI-DOPING CODE

VALID 1 JANUARY 2021

Introduction

The *Prohibited List* is a mandatory *International Standard* as part of the World Anti-Doping Program.

The *List* is updated annually following an extensive consultation process facilitated by WADA. The effective date of the List is 01 January 2021.

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

Below are some terms used in this *List of Prohibited Substances* and *Prohibited Methods*.

Prohibited In-Competition

Subject to a different period having been approved by *WADA* for a given sport, the *In-Competition* period shall in principle be the period commencing just before midnight (at 11:59 p.m.) on the day before a *Competition* in which the *Athlete* is scheduled to participate until the end of the *Competition* and the *Sample* collection process.

Prohibited at all times

This means that the substance or method is prohibited *In-* and *Out-of-Competition* as defined in the *Code*.

Specified and non-Specified

As per Article 4.2.2 of the *World Anti-Doping Code*, "for purposes of the application of Article 10, all *Prohibited Substances* shall be *Specified Substances* except as identified on the *Prohibited List*. No *Prohibited Method* shall be a *Specified Method* unless it is specifically identified as a *Specified Method* on the *Prohibited List*". As per the comment to the article, "the *Specified Substances* and *Methods* identified in Article 4.2.2 should not in any way be considered less important or less dangerous than other doping substances or methods. Rather, they are simply substances and methods which are more likely to have been consumed or used by an *Athlete* for a purpose other than the enhancement of sport performance."

Substances of Abuse

Pursuant to Article 4.2.3 of the Code, *Substances of Abuse* are substances that are identified as such because they are frequently abused in society outside of the context of sport. The following are designated *Substances of Abuse*: cocaine, diamorphine (heroin), methylenedioxymethamphetamine (MDMA/"ecstasy"), tetrahydrocannabinol (THC).

S0 NON-APPROVED SUBSTANCES

PROHIBITED AT ALL TIMES (IN- AND OUT-OF-COMPETITION)

All prohibited substances in this class are *Specified 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

PROHIBITED AT ALL TIMES (IN- AND OUT-OF-COMPETITION)

All prohibited substances in this class are non-*Specified Substances*.

Anabolic agents are prohibited.

1. ANABOLIC ANDROGENIC STEROIDS (AAS)

When administered exogenously, including but not limited to:

- 1-Androstenediol (5α-androst-1-ene-3β, 17β-diol)
- 1-Androstenedione (5α-androst-1-ene-3, 17-dione)
- 1-Androstenediol (3α-hydroxy-5α-androst-1-ene-17-one)
- 1-Epiandrosterone (3β-hydroxy-5α-androst- 1-ene-17-one)
- 1-Testosterone (17β-hydroxy-5α-androst-1- en-3-one)
- 4-Androstenediol (androst-4-ene-3β,17β- diol)
- 4-Hydroxytestosterone (4,17β-dihydroxyandrost-4-en-3-one)
- 5-Androstenedione (androst-5-ene-3,17- dione)
- 7α-hydroxy-DHEA
- 7β-hydroxy-DHEA
- 7-keto-DHEA
- 19-Nordrostenediol (estr-4-ene-3,17-diol)
- 19-Norandrostenedione (estr-4-ene-3,17- dione)
- Androstanolone (5α-dihydrotestosterone, 17β-hydroxy-5α-androstan-3-one)
- Androstenediol (androst-5-ene-3β,17β-diol)
- Androstenedione (androst-4-ene-3,17- dione)
- Bolasterone
- Boldenone
- Boldione (androsta-1,4-diene-3,17-dione)
- Calusterone
- Clostebol
- Danazol ([1, 2]oxazolo[4′,5′:2,3]pregna-4-en- 20-yn-17α-ol)
- Dehydrochlormethyltestosterone (4-chloro-17β-hydroxy-17α-methyladrosta-1,4-dien- 3-one)
- Desoxymethyltestosterone (17α-methyl-5α-androst-2-en-17β-ol and 17α-methyl-5α- androst-3-en-17β-ol)
- Drostanolone
- Epiandrosterone (3β-hydroxy-5α-androstan-17-one)
- Epi-dihydrotestosterone (17β-hydroxy-5β-androstan- 3-one)
- Epitestosterone
- 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-methyladrosta-1,4-dien-3-one)
- Metenolone
- Methandiol
- Methasterone (17β-hydroxy-2α,17α- dimethyl-5α-androstan-3-one)
- Methyl-1-testosterone (17β-hydroxy-17α- methyl-5α-androst-1-en-3-one)
- Methylclostebol
- Methyldienolone (17β-hydroxy-17α-methylestra-4,9-dien-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
- Nandrolone (19-nortestosterone)
- Norboletone
- Norclostebol (4-chloro-17β-ol-estr-4-en-3- one)
- Norethandrolone
- Oxabolone
- Oxandrolone
- Oxymesterone
- Oxymetholone
- Prasterone (dehydroepiandrosterone, DHEA, 3β-hydroxyandrost-5-en-17-one)
- Prostanozol (17β-[(tetrahydropyran-2-yl) oxy]-1'H-pyrazolo[3,4:2,3]-5α-androstane)
- Quinbolone
- Stanozolol
- Stenbolone
- Testosterone
- Tetrahydrogestrinone (17-hydroxy-18a- homo-19-nor-17a-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).

2. OTHER ANABOLIC AGENTS

Including, but not limited to:

Clenbuterol, selective androgen receptor modulators [SARMs, e.g., andarine, LGD-4033 (ligandrol), enobosarm (ostarine) and RAD140], tibolone, zeranol and zipaterol.

Including, but not limited to:

1.1 Erythropoietin receptor agonists, e.g. darbepoetins (dEPO); erythropoietins (EPO); EPO-based constructs (e.g. EPO-Fc, methoxy polyethylene glycol-epoetin beta (CERA)); EPO-mimetic agents and their biosimilars (e.g. CNTO 530, peginesatide).
1.2 Hypoxia-inducible factor (HIF) activating agents, e.g. cobalt; dapropstat (GSK1278863); IOX2; molidustat (BAY 85-3934); roxadustat (FG-4592); vadadustat (AKB-6548); xenon.
1.3 GATA inhibitors, e.g. K-11706.
1.4 Transforming growth factor beta (TGF-β) signalling inhibitors, e.g. luspatercept; sotatercept.
1.5 Innate repair receptor agonists, e.g. asialo EPO; carbamylated EPO (CEPO).

2. PEPTIDE HORMONES AND THEIR RELEASING FACTORS

2.1 Chorionic gonadotrophin (CG) and luteinizing hormone (LH) and their releasing factors in males, e.g. buserelin, deslorelin, gonadorelin, goserelin, leuprorelin, nafarelin and triptorelin.
2.2 Corticotrophins and their releasing factors, e.g. corticorelin.
2.3 Growth hormone (GH), its fragments and releasing factors, including, but not limited to: growth hormone fragments, e.g. AOD-9604 and hGH 176-191; growth hormone-releasing hormone (GHRH) and its analogues, e.g. CJC-1293, CJC-1295, sermorelin and tesamorelin; growth hormone secretagogues (GHS), e.g. ipamorelin (ghrelin) and its mimetics, e.g. anamorelin, ipamorelin, macimorelin and tabimorelin; GH-releasing peptides (GHRPs), e.g. alexamorelin, GHRP-1, GHRP-2 (pralmorelin), GHRP-3, GHRP-4, GHRP-5, GHRP-6, and examorelin (hexarelin).

- Reproterol
- Salbutamol (racemic)
- Salmeterol
- Terbutaline
- Tretoquinol (trimetoquinol)
- Tulobuterol
- Vilanterol

3. GROWTH FACTORS AND GROWTH FACTOR MODULATORS

Including, but not limited to:

- 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)
- Thymosin-β4 and its derivatives e.g. TB-500
- Vascular endothelial growth factor (VEGF)

and other growth factors or growth factor modulators affecting muscle, tendon or ligament protein synthesis/degradation, vascularisation, energy utilization, regenerative capacity or fibre type switching.

S3 BETA-2 AGONISTS

PROHIBITED AT ALL TIMES (IN- AND OUT-OF-COMPETITION)

All prohibited substances in this class are *Specified Substances*.

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

Including, but not limited to:

- Arformoterol
- Fenoterol
- Formoterol
- Higenamine
- Indacaterol
- Levosalbutamol
- Olodaterol
- Procaterol

EXCEPTIONS

- Inhaled salbutamol: maximum 1600 micrograms over 24 hours in divided doses not to exceed 800 micrograms over 12 hours starting from any dose;
- Inhaled formoterol: maximum delivered dose of 54 micrograms over 24 hours;
- Inhaled salmeterol: maximum 200 micrograms over 24 hours;
- Inhaled vilanterol: maximum 25 micrograms over 24 hours.

NOTE

The presence in urine of salbutamol in excess of 1000 ng/mL or formoterol in excess of 40 ng/mL is not consistent with 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 a therapeutic dose (by inhalation) up to the maximum dose indicated above.

S4 HORMONE AND METABOLIC MODULATORS

PROHIBITED AT ALL TIMES (IN- AND OUT-OF-COMPETITION)

Prohibited substances in classes S4.1 and S4.2 are *Specified Substances*. Those in classes S4.3 and S4.4 are non-*Specified Substances*.

The following hormone and metabolic modulators are prohibited.

1. AROMATASE INHIBITORS

Including, but not limited to:

- 2-Androstenol (5α-androst-2-en-17-ol)
- 2-Androstenone (5α-androst-2-en-17-one)
- 3-Androstenol (5α-androst-3-en-17-ol)
- 3-Androstenone (5α-androst-3-en-17-one)
- 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. ANTI-ESTROGENIC SUBSTANCES [ANTI-ESTROGENS AND SELECTIVE ESTROGEN RECEPTOR MODULATORS (SERMS)]

Including, but not limited to:

- Bazedoxifene
- Clomifene
- Cyclofenil
- Fulvestrant
- Ospemifene
- Raloxifene
- Tamoxifen
- Toremifene

3. AGENTS PREVENTING ACTIVIN RECEPTOR IIB ACTIVATION

Including, but not limited to:

- Activin A-neutralizing antibodies
- Activin receptor IIB
- Anti-activin receptor IIB antibodies
- Myostatin inhibitors such as:
  - Agents reducing or ablating myostatin expression
  - Myostatin-binding proteins (e.g. follistatin, myostatin propeptide)
  - Myostatin-neutralizing antibodies (e.g. domagrozumab, landogrozumab, stamulumab)
- Acetazolamide; amiloride; bumetanide; canrenone; chlortalidone; etacrynic acid; furosemide; indapamide; metolazone; spironolactone; thiazides, e.g. bendroflumethiazide, chlorothiazide and hydrochlorothiazide; triamterene and vaptans, e.g. tolvaptan.

EXCEPTIONS

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

4. METABOLIC MODULATORS

4.1 Activators of the AMP-activated protein kinase (AMPK), e.g. AICAR, SR9009; and peroxisome proliferator-activated receptor delta (PPARδ) agonists, e.g. 2-(2-methyl-4-((4-methyl-2-(4-trifluoromethylphenyl)thiazol-5-yl)methylthio) phenoxy) acetic acid (GW1516, GW501516)

4.2 Insulins and insulin-mimetics

4.3 Meldonium

4.4 Trimetazidine

S5 DIURETICS AND MASKING AGENTS

PROHIBITED AT ALL TIMES (IN- AND OUT-OF-COMPETITION)

All prohibited substances in this class are *Specified Substances*.

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. intravenous administration of albumin, dextran, hydroxyethyl starch and mannitol.
- Chlorbutanol; mesocarb; sulfonamides (e.g. bimagrumab)
- Mycotoxins; cardiotonines (e.g. digoxin, digitoxin)
- Metabolites or markers of the administration of substances in this class (or other substances prohibited when administered in sufficient quantities to produce a urine concentration equivalent to that of the prohibited substance) are considered to be prohibited unless the athlete establishes that the concentration of the metabolite or marker in his/her urine is due to the ingestion of a normal dose of the substance.

PROHIBITED METHODS

PROHIBITED AT ALL TIMES (IN- AND OUT-OF-COMPETITION)

All prohibited methods in this class are non-*Specified* except methods in M2.2. which are *Specified Methods*.

M1. MANIPULATION OF BLOOD AND BLOOD COMPONENTS

The following are prohibited:

1. The *Administration* or reinfusion 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:
   Sample substitution and/or adulteration, e.g. addition of proteases to *Sample*.
2. Intravenous infusions and/or injections of more than a total of 100 mL per 12-hour period except for those legitimately received in the course of hospital treatments, surgical procedures or clinical diagnostic investigations.

M3. GENE AND CELL DOPING

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

1. The use of nucleic acids or nucleic acid analogues that may alter genome sequences and/or alter gene expression by any mechanism. This includes but is not limited to gene editing, gene silencing and gene transfer technologies.
2. The use of normal or genetically modified cells.

S6 STIMULANTS

PROHIBITED IN-COMPETITION

All prohibited substances in this class are *Specified Substances* except those in S6.A, which are non-*Specified Substances*.

Substances of Abuse in this section: cocaine and methylenedioxymethamphetamine (MDMA / "ecstasy")

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
- Clobenorex
- Cocaine
- Cropropamide
- Crotetamide
- Fencamine
- Fenetylline
- Fenfluramine
- Fenproporex
- Fenturacetam [4-phenylpiracetam (carphedon)]
- Furfenorex
- Lisdexamfetamine
- Mefenorex
- Mephentermine
- Mesocarb
- Metamfetamine(*d-*)
- p-methylamfetamine
- Modafinil
- Norfenfluramine
- Phendimetrazine
- Phentermine
- Prenylamine
- Prolintane
- Methylephedrine***
- Methylphenidate
- Nikethamide
- Norfenefrine
- Octodrine (1,5-dimethylhexylamine)
- Octopamine
- Oxilofrine (methylsynephrine)
- Pemoline
- Pentetrazol
- Phenylalanine and its derivatives
- Phenmetrazine
- Phenpromethamine
- Propylhexedrine
- Pseudoephedrine*****
- Selegiline
- Sibutramine
- Strychnine
- Tenamfetamine (methylenedioxyamphetamine)
- Tuaminoheptane
- Ephedrine***
- Epinephrine****
  (adrenaline)
- Etamivan
- Etilamfetamine
- Etilefrine
- Famprofazone
- Fenbutrazate
- Fencamfamin
- Heptaminol
- Hydroxyamfetamine (parahydroxyamphetamine)
- Isometheptene
- Levmetamfetamine
- Meclofenoxate
- Methylenedioxymethamphetamine

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

EXCEPTIONS

- Clonidine;
- Imidazole derivatives for dermatological, nasal or ophthalmic use (e.g. brimonidine, clonazoline, fenoxazoline, indanazoline, naphazoline, oxymetazoline, xylometazoline) and those stimulants included in the 2021 Monitoring Program*.

* Bupropion, caffeine, nicotine, phenylephrine, phenylpropanolamine, pipradrol, and synephrine: These substances are included in the 2021 Monitoring Program and are not considered Prohibited Substances.

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

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

**** 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 millilitre.

S7 NARCOTICS

PROHIBITED IN-COMPETITION

All prohibited substances in this class are *Specified Substances*. *Substance of Abuse* in this section: diamorphine (heroin)

The following narcotics, including all optical isomers, e.g. *d- and l-* where relevant, are prohibited.

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

S8 CANNABINOIDS

PROHIBITED IN-COMPETITION

All prohibited substances in this class are *Specified Substances*. *Substance of Abuse* in this section: tetrahydrocannabinol (THC)

All natural and synthetic cannabinoids are prohibited, e.g.

- In cannabis (hashish, marijuana) and cannabis products
- Natural and synthetic tetrahydrocannabinols (THCs)
- Synthetic cannabinoids that mimic the effects of THC

EXCEPTIONS

- Cannabidiol

S9 GLUCOCORTICOIDS

PROHIBITED IN-COMPETITION

All prohibited substances in this class are *Specified Substances*.

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

Including, but not limited to:

- Beclometasone
- Betamethasone
- Budesonide
- Ciclesonide
- Cortisone
- Deflazacort
- Dexamethasone
- Flucortolone
- Flunisolide
- Fluticasone
- Hydrocortisone
- Methylprednisolone
- Mometasone
- Prednisolone
- Prednisone
- Triamcinolone acetonide

P1 BETA-BLOCKERS

PROHIBITED IN PARTICULAR SPORTS

All prohibited substances in this class are *Specified Substances*.

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
- Metipranolol
- Metoprolol
- Nadolol
- Nebivolol
- Oxprenolol
- Pindolol
- Propranolol
- Sotalol
- Timolol

JADCO
Jamaica Anti-Doping Commission
Committed to the Fight Against Doping in Sport

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