

WADA Technical Document for Sport Specific Analysis

Document number:	TDSSA	Version number:	9.0
Written by:	Strategic Testing Expert Advisory Group	Approved by:	WADA Executive Committee
Date:	16 November 2023	Effective date:	1 January 2024

1.0 Introduction

As a requirement, under Article 5.4.1 of the 2021 World Anti-Doping Code (*Code*); “*Anti-Doping Organizations shall conduct test distribution planning and Testing as required by the International Standard for Testing and Investigations.*” The *International Standard for Testing and Investigations* (ISTI) outlines in Article 4.2.3. that: “*In developing its Test Distribution Plan, the Anti-Doping Organization shall incorporate the requirements of the TDSSA.*”

This *Technical Document for Sport Specific Analysis (TDSSA)* is intended to ensure that the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA and other tools that support the detection of *Prohibited Substances* and/or identify the *Use of Prohibited Methods* such as the *Athlete Biological Passport (ABP)* are subject to an appropriate and consistent level of use and adoption by all *Anti-Doping Organizations (ADOs)* that conduct *Testing* in those sports or disciplines deemed to be at risk of doping using the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA. Compliance with the TDSSA and its Appendices is mandatory under the ISTI.

The TDSSA complements other anti-doping tools and programs such as the *ABP*, intelligence gathering and investigations. The development of the TDSSA is based on a scientific approach, linking physiological and non-physiological demands of *Athlete* performance with the potential ergogenic benefit of those *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA.

A Minimum Level of Analysis (MLA) is specified for the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA for each sport or discipline, expressed as a percentage of the total number of eligible Tests and based on a Physiological Risk Assessment of that sport or discipline. The full MLA list for each sport or discipline is provided in Appendices 1 and 2.

The MLA applies to *Testing* conducted by all *ADOs* on *International-Level Athletes* and *National-Level Athletes* as defined by the applicable *ADO*.

The MLAs for each sport or discipline should not be considered as the precise level of analysis that an *ADO* should implement in that sport or discipline. Instead, and as the name suggests, they should be seen as minimum requirements, and *ADOs* are encouraged to exceed the MLAs where they believe is appropriate to do so, based on their Risk Assessment and any intelligence they may have access to. *ADOs* are also encouraged to take advantage of Article 6.6 of the *Code*, which permits *ADOs* to request Laboratories to analyze *Samples* that have already been reported as negative and have been stored for Further Analysis, for the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA.

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The full *Prohibited List* remains applicable to all sports, including sports that are not covered by the TDSSA and/or for which the MLA is zero (0%). Any ADO may, at its own discretion and expense, request a Laboratory to analyze any *Sample* for any one or more of the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA at any time.

In addition, under Article 6.4.1 of the *Code*, “Laboratories at their own initiative and expense may analyze *Samples* for *Prohibited Substances* and/or *Prohibited Methods* not included on the standard *Sample analysis menu* or as requested by the *Anti-Doping Organization* that initiated and directed *Sample collection*.” This includes those *Prohibited Substances* and/or *Prohibited Methods* which are described in the TDSSA.

WADA has developed non-mandatory guidelines intended to assist with the implementation and application of the TDSSA. These guidelines can be found on WADA’s website but are not to be considered an appendix of the TDSSA, as they will be amended from time to time to reflect the ongoing needs of stakeholders and evolving best practices.

Defined terms in the *Code*, *International Standards* and the TDSSA can be found in Article 10 of the TDSSA.

2.0 Objectives

The objectives of the TDSSA are to contribute to effective *Testing* by:

- 2.1. Maintaining well-reasoned and proportionate MLAs for those *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA in particular sports or disciplines;
- 2.2. Establishing criteria by which all ADOs shall apply MLAs within a Test Distribution Plan (TDP) while recognizing the need for flexibility within the diversity of *Code*-compliant anti-doping programs;
- 2.3. Ensuring the TDSSA supports the implementation of the Hematological Module of the *ABP* to continue to allow for intelligent *Testing* and targeted analysis for erythropoietin receptor agonists (ERAs¹); and

¹ The acronym ‘ERAs’ is used in this *Technical Document* to describe the substances analyzed according to the applicable *WADA Technical Document* for EPO in force.

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2.4. Informing *ADOs* on *Testing* and analysis best practices for those *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA in particular sports or disciplines.

3.0 Scope

3.1. Level of Athlete

The TDSSA applies to *Testing* conducted on *International-Level Athletes* and *National-Level Athletes* (as defined by International Federations (IFs) and *National Anti-Doping Organizations (NADOs)*, respectively). *ADOs* may also apply the TDSSA to *Recreational* or other *Athletes* within their jurisdiction. Only analyses conducted on *International-Level Athletes* and *National-Level Athletes* will be used to determine whether the applicable TDSSA MLAs have been met. For the purpose of the TDSSA, all *Athletes* competing in *Events* which are under the jurisdiction of a *Major Event Organization (MEO)* are *International-Level Athletes* or *National-Level Athletes*.

3.2. Prohibited Substances and/or Prohibited Methods included within the TDSSA

The *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA are normally not part of a standard *Sample* analysis conducted by Laboratories and require additional analysis methods.

The *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA are:

- Erythropoietin receptor agonists (ERAs) as listed in Section S2.1.1;
- Growth hormone (GH) as listed in Section S2.2.3; and
- Growth hormone releasing factors (GHRFs) including growth hormone-releasing hormone (GHRH) and its analogues, growth hormone secretagogues (GHS) and its mimetics, and growth hormone-releasing peptides (GHRPs) as listed in Section S2.2.4.

Whilst implementation of the GHRFs MLAs has been mandatory since 1 January 2017, the mandatory implementation of the GH MLAs for all sports or disciplines has been postponed and will be assessed once the Endocrine Module of the *ABP* has been operational for at least one year. Implementation of the Endocrine Module² of the *ABP* for those sports or disciplines for which the MLA of GH is 15% or higher is strongly recommended. For the sports or

² Please contact WADA's ABP team at athletepassport@wada-ama.org to receive the Frequently Asked Questions (FAQs) document for the Endocrine Module of the ABP for further information on testing strategies.

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disciplines with an MLA for GH of 10%, *ADOs* are encouraged to consider the benefits of implementing the Endocrine Module of the *ABP*.

During the period of the GH MLAs postponement:

- *ADOs* are encouraged to continue their best efforts to conduct GH *Testing* by prioritizing the higher risk sports or disciplines listed in the TDSSA;
- In situations where a *Sample* is reported as an *Atypical Finding* for GH, and/or where investigations indicate reliable intelligence on possible GH abuse, *ADOs* should target the *Athlete* for GH analysis. In addition, *ADOs* are strongly encouraged to request long-term storage for such *Samples* for Further Analysis when further technological advancements for GH analysis are available; and
- *ADOs* will not be held accountable under *WADA's* compliance monitoring program for any failure to meet the relevant GH MLAs.

Information about the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA and guidance on *Testing* strategies for each *Prohibited Substance* is provided within the TDSSA Testing Guides³. In addition to the TDSSA Testing Guides, a *Testing Guide* on Gas Chromatography/Combustion/Isotope Ratio Mass Spectrometry (GC/C/IRMS) is also available to *ADOs*.

3.3. Implementation of the Hematological Module of the *ABP*

The Hematological Module of the *ABP* plays an important part in the targeting of *Athletes* for *Testing*, the detection of ERAs and prosecution of anti-doping rule violations for *Use* of blood doping methods. The implementation of the Hematological Module of the *ABP* for sports or disciplines with an ERAs MLA of 30% or greater is a **mandatory** component of compliance with the TDSSA.

In addition, for the purposes of compliance with the TDSSA, the implementation of the Hematological Module of the *ABP* shall include the following mandatory criteria:

- a) Include all *Athletes* from those sports or disciplines with an ERAs MLA of 30% or greater (as identified in the TDSSA) that are included in an *ADO's* TDP, and are part of the *ADO's* Registered Testing Pool (RTP);

³ Please contact testing@wada-ama.org for a copy of the TDSSA Testing Guides and/or the GC/C/IRMS Testing Guide.

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- b) The *ABP* program shall be compliant with all applicable *ABP Technical Documents* and *International Standards*, including the *ISTI*, the *International Standard for Results Management* and the applicable *Technical Document for Athlete Passport Management Units (APMU)* in force;
- c) At a minimum, an average of three blood *ABP Tests* shall be planned annually across all *Athletes* from those sports or disciplines with an ERAs MLA of 30% or greater, who are part of the *RTP* of an *ADO* and therefore part of the *ADO's ABP Hematological Module* program; and
- d) The distribution of these *Tests* shall be carried out according to the status of the *Athlete's Passport*, as well as any intelligence the *ADO* may have access to and the recommendations of the *APMU*, so that *Athletes* with atypical/suspicious *Passports* receive more *Tests* than those with normal *Passports*.

ADOs are required to report the details of their *RTP* to *WADA* through the Anti-Doping Administration and Management System (*ADAMS*). An *ADO's* compliance in relation to its hematological *ABP* program will be monitored by *WADA* as part of its wider compliance monitoring program based on the criteria outlined above and as per the *ISTI*.

As a guide to *WADA's* assessment of the required number of blood *ABP Tests* per *ADO* (see criterion (c) above), the annual number of blood *ABP Tests* conducted by the *ADO* and recorded in *ADAMS* will be divided by the number of *Athletes* in the *RTP* from the sports or disciplines with an ERAs MLA of 30% or greater.

RTP Athletes with atypical or suspicious *Passports*, as identified by the *APMU*, should be subject to greater than three blood *ABP Tests* during the course of the year. *RTP Athletes* with normal⁴ *Passports* shall have at least one blood *ABP Test* during the course of the year. For an *RTP Athlete* from a sport or discipline with an ERAs MLA of 30% or greater with no previous blood *ABP Tests*, the *ADO* shall plan to conduct a minimum of three blood *ABP Tests* within the first year to establish a baseline and then adjust the *Testing* frequency, in consultation with the *ADO's APMU* and intelligence to which the *ADO* may have access to.

These requirements do not prevent the implementation by an *ADO* of the Hematological Module of the *ABP* on *Athletes* outside of its *RTP* e.g., of its *Testing Pool* or those in the *RTP* of another *ADO*, and *ADOs* are encouraged to do so where possible.

⁴ As determined by the *APMU*

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Implementation of the Hematological Module of the *ABP* for those sports or disciplines for which the MLA for ERAs is 15% is **strongly recommended**. For those sports or disciplines with an MLA for ERAs of 10%, *ADOs* are encouraged to consider the benefits of implementing the Hematological Module of the *ABP*. When implementing the Hematological Module of the *ABP* for sports or disciplines with an ERAs MLA of 15% or less, *ADOs* are encouraged to apply the same criteria as outlined in (b) to (d) above.

Implementation of the Hematological Module of the *ABP* also enables *ADOs* to seek a flexibility in the MLA percentage for ERAs, subject to meeting the criteria outlined in Article 6 of the TDSSA.

4.0 MLA for Sports and Disciplines

MLAs for sports and disciplines are located in:

- **Appendix 1:** Minimum Levels of Analysis for Sports and Disciplines of Olympic, IOC Recognized and Non-Recognized International Federations.⁵
- **Appendix 2:** Minimum Levels of Analysis for Sports and Disciplines for *Athletes* with an Impairment for which the International Paralympic Committee acts as the International Federation.
- **Appendix 3:** Minimum Levels of Analysis for Sports and Disciplines for Athletes with an Impairment for which the International Paralympic Committee does not act as the International Federation.

5.0 Test Distribution Planning and MLA Percentages

5.1. Test Distribution Plan

In accordance with Article 4.1.1 of the ISTI, each *ADO* is required to plan and implement intelligent *Testing* on *Athletes* over whom it has authority, which is proportionate to the risk of doping, and that is effective to detect and to deter such practices.

The TDSSA is part of the Risk Assessment and the overall TDP development process. Once a TDP is developed, each *ADO* will be responsible for managing the implementation of the

⁵ Includes only those non-International Olympic Committee (IOC) recognized sports that are members of the Alliance of Independent Recognized Members of Sport (AIMS).

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TDSSA throughout their *Testing* year by applying the required MLAs in a targeted manner to defined *Athletes*.

5.2. Applying MLAs to the Test Distribution Plan

The aim is to test the right *Athletes* for the right *Prohibited Substance(s)* and/or *Prohibited Method(s)* at the right time. Once an *ADO* has conducted the required Risk Assessment and assigned Tests to a sport or discipline within its TDP, it shall apply the prescribed MLA percentage to the number of Tests allocated to each sport or discipline to determine the minimum number of analyses required for each *Prohibited Substance*.

For the purposes of this calculation, one Test includes any number of *Samples* that are collected from one *Athlete* during a single Sample Collection Session. For example, a Sample Collection Session in which one urine *Sample*, one blood *ABP Sample* and one dried blood spot *Sample* are collected will count as one Test. Blood *ABP* and/or dried blood spot Tests, conducted in isolation, shall not be included in this calculation.

Any MLA that does not equal a whole number when applied to total Tests shall be rounded up or down to the nearest whole number.

Where the *ADO* has intelligence that would lead to a more effective use of one analysis allocated to a sport or discipline on an *Athlete* in a sport or discipline of higher risk, the *ADO* may reallocate that single analysis.

Although compliance with the TDSSA is mandatory⁶, the total number of athletes eligible for testing, the selection of the *Athletes* to be tested, the selection of the *Sample* matrices collected (*i.e.*, urine or blood) and the timing of those Tests and types of analyses applied to collected *Samples* remain at the discretion of the *ADO*.

Achieving the MLAs for the applicable sports or disciplines should be based on quality of *Testing*, and not simply reaching a required number of Tests. Thus, allocations of Tests should be based on intelligence where possible and may include *ABP* information, whereabouts, timing of competition periods, and any other information that may affect the pattern and the timing of *Use of the Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA.

⁶ Except where expressly stated otherwise

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Further guidance on the implementation of the TDSSA within a TDP can be found in the WADA “Guidelines for Implementing an Effective *Testing* Program”, the TDSSA Testing Guides and the Frequently Asked Questions (FAQs) located in Supporting Document A.

5.3. Sports and Disciplines with MLAs of five percent (5%)

To increase flexibility and to enable ADOs to focus resources on higher risk sports or disciplines, compliance with the TDSSA for sports or disciplines with an MLA of 5% is optional. However, ADOs are strongly encouraged to continue their best efforts to meet the 5% MLAs for the respective sports or disciplines listed in the TDSSA to maintain deterrence.

5.4. Sports and Disciplines with MLAs of zero percent (0%)

Those sports or disciplines that are determined to be at minimal physiological risk to the abuse of the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA, and for which the associated MLA is 0%, shall remain subject to *In-Competition* and *Out-of-Competition* standard urine analysis menus.

However, such sports or disciplines may be subject to *Testing* at any time by any ADO for those *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA, especially if the ADO gathers specific information relating to potential use of such *Prohibited Substances* and/or *Prohibited Methods*.

6.0 Flexibility in Implementing the MLAs

Article 4.7.2 of the ISTI outlines that: “An Anti-Doping Organization may apply to WADA for flexibility in the implementation of the minimum levels of analysis specified for *Prohibited Substances* or *Prohibited Methods* as outlined in the TDSSA.”

In order for WADA to consider flexibility in the implementation of the MLAs, the ADO shall demonstrate its implementation of the Hematological Module of the *ABP* and/or the implementation of intelligence-led *Testing* strategies and/or tools and how such approaches lead to the most effective and efficient use of the available *Testing* resources. Compliance with the TDSSA alone is not sufficient to demonstrate intelligence-led testing.

Following the completion of a self-assessment against set criteria, and the submission to WADA of relevant documents such as the ADO’s Risk Assessment, TDP and *RTP*, an ADO will automatically

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qualify for flexibility in the implementation of the MLAs of up to 50%⁷ for the sports or disciplines the *ADO* seeks flexibility for, subject to a review by *WADA*.

WADA withholds the right to request further information from the *ADO* to justify the requested flexibility. Sports and disciplines with MLAs of 10% or less are not eligible for flexibility. *WADA* may deny, withdraw or reduce the level of flexibility if the self-assessment was incorrectly answered or relevant documents requested are partially/not submitted within the requested timelines or the *ADO*'s testing program is found not to be compliant with the *ISTI*.

6.1 Implementation of the Hematological Module of the *ABP* (Applies to the MLA for ERAs only).

To be eligible for flexibility of up to 50% of the ERAs MLAs for sports or disciplines based on the adoption of the Hematological Module of the *ABP*, the *ADO* shall be able to demonstrate that it meets all of the criteria below:

- 6.1.1 The *ABP* program of the sport or discipline has been fully operational for at least 12 months;
- 6.1.2 The *ABP* program is managed by a *WADA*-approved APMU in accordance with the applicable *Technical Document* for APMUs in force.
- 6.1.3 The *ABP* program implements *Target Testing* that acts upon the recommendations of an APMU with reference to ERAs;
- 6.1.4 All relevant *ABP* data, including *Doping Control* forms (DCFs), are available in *ADAMS*, which permits oversight by *WADA*; and
- 6.1.5 All criteria described in Article 3.3 of this *Technical Document* are met.

6.2 Non-*ABP* (Hematological Module) related criteria

Flexibility in implementing the MLAs due to non-*ABP* related criteria applies only to the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA. Such criteria include (but are not limited to):

⁷ Requests for flexibility in the implementation of the MLAs of more than 50% will not be accepted.

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- a) *Target Testing* to be the majority of testing for both *In-Competition and Out-of-Competition*;
- b) Anti-doping intelligence received is collated and analyzed to establish patterns, trends and relationships that assist in the further development of an effective anti-doping strategy;
- c) The development and implementation of policies and procedures for the sharing of information with other *ADOs* and law enforcement, and for the facilitation and encouragement of confidential sources.
- d) The implementation of alternative *Testing* strategies including the application of specific analysis for other *Prohibited Substances* and/or *Prohibited Methods* outside the scope of the TDSSA, the collection of dried blood spot *Samples*, the collection of blood *Samples* for the Steroidal Module of the *ABP*, the use of the Endocrine Module of the *ABP*, etc.;
- e) Regular review of *Samples* in long-term storage to assess and implement Further Analysis as needed; and
- f) Use of an electronic system (i.e., “paperless”) to conduct sample collection sessions (e.g., by utilizing WADA’s DCO Central application).

ADOs that can demonstrate that the above criteria are actively part of the *ADO’s* anti-doping program will receive a 10% flexibility in the implementation of the MLAs for meeting each criterion from a), d), e) and/or f), whereas, for meeting criteria b) and/or c) *ADOs* will receive a 5% flexibility for each criterion met.

6.3 Application for Flexibility in the Implementation of the MLAs

The process and the full list of criteria required to support an application for flexibility in implementing the MLAs can be found in [WADA’s Code Compliance Center](#) and the [Application for Flexibility User Guide](#) on WADA’s website.

6.4 Period for Flexibility in the Implementation of the MLAs

Flexibility in the implementation of the MLAs will remain valid for a maximum period of two years provided that the *ADO* continues to comply with the list of criteria included in [WADA’s Code Compliance Center](#) or the [Application for Flexibility User Guide](#). If the *ADO* no longer meets the criteria contained within its application for flexibility, the *ADO* shall notify WADA.

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Flexibility granted under this Article 6 is subject to review by *WADA* at any time. Should an *ADO* wish to extend the validity period of its flexibility, the *ADO* shall contact *WADA* in advance of its expiration.

7.0 Documentation

ADOs shall ensure the following information is accurately recorded on the applicable document or in *ADAMS* to ensure that *WADA* can monitor and evaluate an *ADO's* implementation of the TDSSA:

7.1. Sport and Discipline on the DCF

To ensure accurate recording of *Sample* analysis by the Laboratories and reporting of statistics in *ADAMS*, Testing Authorities, Sample Collection Authorities and their Doping Control Officers must ensure that the correct sport and discipline for the *Athlete*, as listed in Appendices 1 and 2 of the TDSSA, is recorded at a minimum on the Laboratory copy of the DCF.

7.2. Type of Analysis for each Sample

The request for analysis of the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA shall be provided to the Laboratory for each *Sample* to ensure the Laboratory conducts the correct analyses and accurately reports the results in *ADAMS*.

The specific type of analysis required for each *Sample* shall be recorded on the chain of custody (or equivalent) documentation shipped with the *Samples* to the Laboratory or by an otherwise effective communication method that has been agreed with the Laboratory responsible for analyzing an *ADO's* *Samples*. However, the type of analysis requested shall not be recorded on the DCF.

7.3. Level of Athlete Tested

The TDSSA shall be applicable to *International-Level Athletes* and *National-Level Athletes* as defined by each *ADO*. To assist with the monitoring of an *ADO's* TDP and compliance with the application of the MLAs to those defined *Athletes*, *ADOs* shall record the level of the *Athlete* in *ADAMS*. *ADOs* may be requested to validate such data to *WADA* as part of *WADA's* wider compliance program.

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8.0 Data Analysis and Monitoring

To monitor compliance, WADA utilizes the TDSSA Monitoring tool in ADAMS Next Gen. It is strongly recommended that ADOs use this tool to monitor their compliance with the TDSSA regularly. For more information on the TDSSA Monitoring tool in ADAMS Next Gen, ADOs can refer to either the [Reporting Guide to Monitor Testing](#) on WADA's website or the ADAMS [Help Center](#).

For TDSSA monitoring and compliance purposes, WADA will assess whether the ADO has complied with the MLAs based on *Doping Control* statistics contained in ADAMS. This will include, but not be limited to, the following elements:

- Total number of Tests and types of analyses for the period 1 January – 31 December;
- MLA achieved for each *Prohibited Substance* category within the scope of the TDSSA for each sport or discipline listed in the ADO's TDP;
- Number of *Athletes* tested; and
- Implementation of the Hematological Module of the *ABP* for sports or disciplines with an ERAs MLA equal to or greater than 30%, for *RTP Athletes*.

These statistics and any other relevant information will also be used to review and modify the TDSSA over time.

It is expected that ADOs will also utilize this data to assist in the review of their TDP and the management of their *Doping Control* programs.

A wider evaluation of ADOs' compliance with the TDSSA is being addressed through WADA's continuous compliance and monitoring program. The evaluation includes a review of the methods applied by ADOs to the implementation of the Tests in order to meet the MLAs as outlined in the ISTI, including but not limited to the assessment of risk among *Athletes* within the jurisdiction of the ADO, and the use of information and intelligence in the selection and timing of Tests on defined *Athletes*.

Any retrospective analysis for the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA requested by ADOs will count towards compliance with the TDSSA requirements of the year that the *Sample* was collected than the year the retrospective analysis is requested.

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9.0 Review of TDSSA

As part of an ongoing review process, WADA will monitor the implementation of the TDSSA. Revisions to the TDSSA may be issued from time to time based on consultation with ADOs and Laboratories or the revision to the Code or International Standards or for other reasons at WADA's discretion (e.g., revisions to the *Prohibited List* or inclusion of a *Prohibited Substance* and/or *Prohibited Method* that is not within the scope of the TDSSA). ADOs will be provided with prior notice of such modifications taking effect.

10.0 Definitions

10.1. Defined Terms from the 2021 Code that are used in the TDSSA are italicized.

10.2. Defined Terms from the International Standards that are used in the TDSSA are underlined.

10.3. Defined Terms Specific to the TDSSA

Minimum Level of Analysis (MLA): The number of analyses for the *Prohibited Substances* and/or *Prohibited Methods* within the scope of the TDSSA required to be performed by an ADO for each sport or discipline, expressed as a percentage of the total eligible Tests in their TDP.

Physiological Risk Assessment: Analysis of the physiological demands of a sport or discipline against the potential performance enhancing benefit of *Prohibited Substances* and/or *Prohibited Methods* on the TDSSA.

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Appendix 1

Minimum Levels of Analysis for Sports and Disciplines of Olympic and IOC Recognized International Federations, and members of the Alliance of Independent Recognized Members of Sport

SPORT	DISCIPLINE	ERAs %	GH % ⁸	GHRFs %
Aikido	Aikido	5	5	5
Air Sports	All	0	0	0
American Football	American Football	5	15	15
American Football	Flag Football	5	5	5
Aquatics	Diving	0	5	5
Aquatics	Swimming Sprint 100m or less	10	10	10
Aquatics	Swimming Long Distance 800m or greater	30	5	5
Aquatics	Swimming Middle Distance 200-400m	15	5	5
Aquatics	Open Water	30	5	5
Aquatics	Artistic Swimming	10	5	5
Aquatics	Water Polo	10	10	10
Archery	All	0	0	0
Arm Wrestling	Arm Wrestling	5	15	15
Athletics	Combined Events	15 ⁹	15	15
Athletics	Jumps	10	15	15
Athletics	Long Distance 3000m or greater	60	5	5
Athletics	Middle Distance 800-1500m	30	10	10
Athletics	Sprint 400m or less	10	15	15
Athletics	Throws	5	15	15
Athletics	Trail and Mountain Running	60	10	10
Automobile Sports	All	5	0	0
Badminton	Badminton	10	10	10

⁸ The mandatory implementation of the GH MLAs for all sports/disciplines is postponed and will be assessed once the Endocrine Module of the ABP has been operational for at least one year.

⁹ The ERAs MLA will be increased to 30% in the TDSSA v10 that will come into effect on 1 January 2025. ADOs are encouraged to adjust their TDP to prepare for the revised ERAs MLA and the implementation of the Hematological Module of the ABP in this discipline.

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SPORT	DISCIPLINE	ERAs %	GH % ⁸	GHRFs %
Bandy	Bandy	5	10	10
Baseball	Baseball	5	10	10
Basketball	Basketball	10	10	10
Basketball	3 on 3	10	10	10
Basque Pelota	Basque Pelota	5	5	5
Biathlon	Biathlon	60	10	10
Billiards Sports	All	0	0	0
Bobsleigh	Bobsleigh	5	10	10
Bobsleigh	Skeleton	0	10	10
Bodybuilding	Bodybuilding	5	30	30
Bodybuilding	Fitness	10	30	30
Boules Sports	All	0	0	0
Bowling	All	0	0	0
Boxing	Boxing	15	10	10
Bridge	Bridge	0	0	0
Canoe/Kayak	Sprint 200m	10	10	10
Canoe/Kayak	Canoe Slalom	15	10	10
Canoe/Kayak	Canoe Polo	5	10	10
Canoe/Kayak	Middle Distance 500m	15	10	10
Canoe/Kayak	Dragon Boat	10	5	5
Canoe/Kayak	Freestyle	5	10	10
Canoe/Kayak	Long Distance 1000m	30	5	5
Canoe/Kayak	Marathon	30	5	5
Canoe/Kayak	Ocean Racing	15 ⁹	5	5
Canoe/Kayak	Wildwater	5	10	10
Casting	Casting	0	0	0
Cheer	Cheer	5	5	5
Chess	Chess	0	0	0
Cricket	All	5	10	10
Curling	Curling	0	0	0
Cycling	Bike Handling Skills	5	5	5
Cycling	BMX Freestyle Park	5	10	10

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Cycling	BMX Racing	5	15	15
Cycling	Cyclo-Cross	30	10	10
Cycling	Mountain Bike Downhill	5	10	10
Cycling	Mountain Bike Endurance	30	10	10
Cycling	Mountain Bike Sprint	5	15	15
Cycling	Road	60	10	10
Cycling	Track Endurance	30	10	10
Cycling	Track Sprint	5	15	15
Dance Sport	All	5	5	5
Darts	Darts	0	0	0
Dragon Boat	Dragon Boat	10	5	5
Draughts	Draughts	0	0	0
Equestrian	Dressage	0	0	0
Equestrian	Driving	0	0	0
Equestrian	Eventing	5	5	5
Equestrian	Endurance	5	5	5
Equestrian	Jumping	5	5	5
Equestrian	Reining	0	0	0
Equestrian	Vaulting	5	5	5
Fencing	Epee	5	5	5
Fencing	Foil	5	5	5
Fencing	Sabre	5	5	5
Field Hockey	Field Hockey	10	10	10
Field Hockey	Indoor	5	5	5
Fistball	Fistball	5	5	5
Floorball	Floorball	5	5	5
Flying Disc	Ultimate	5	5	5
Football	Beach Football	5	5	5
Football	Football	10	10	10
Football	Futsal	5	5	5
Go	Go	0	0	0
Golf	Golf	5	5	5

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Gymnastics	Artistic	10	10	10
Gymnastics	Acrobatic	5	10	10
Gymnastics	Rhythmic	5	5	5
Gymnastics	Aerobic	10	5	5
Gymnastics	Trampoline	5	5	5
Gymnastics	Tumbling	5	5	5
Handball	Beach	5	5	5
Handball	Indoor	10	10	10
Ice Hockey	Ice Hockey	5	10	10
Icestocksport	Icestocksport Target	0	0	0
Icestocksport	Icestocksport Distance	0	5	5
Ju-Jitsu	All	10	10	10
Judo	Judo	10	10	10
Karate	Karate	10	10	10
Kendo	Kendo	5	5	5
Kickboxing	All	15	10	10
Korfball	Korfball	10	5	5
Lacrosse	Lacrosse	10	10	10
LifeSaving	LifeSaving	10	5	5
Luge	Luge	0	10	10
Minigolf	Minigolf	0	0	0
Modern Pentathlon	Modern Pentathlon	5	5	5
Motorcycle Racing	All	5	0	0
Mountaineering and Climbing	All	10	5	5
Muaythai	Muaythai	15	10	10
Netball	Netball	10	5	5
Orienteering	All	15 ⁹	5	5
Polo	All	5	5	5
Powerboating	Aquabike	5	5	5
Powerboating	Circuit	0	0	0
Powerboating	Offshore	0	0	0
Powerlifting	All	5	30	30

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Racquetball	Racquetball	10	5	5
Roller Sports	Alpine and Inline Downhill	10	10	10
Roller Sports	Artistic	5	5	5
Roller Sports	Hockey	5	10	10
Roller Sports	Inline Speed Skating Sprint 1000m or less	15	10	10
Roller Sports	Inline Speed Skating Distance greater than 1000m	30	10	10
Roller Sports	Roller Derby	5	5	5
Roller Sports	Roller Freestyle	5	10	10
Roller Sports	Scooter	5	10	10
Roller Sports	Skateboarding	5	10	10
Roller Sports	Skate-Cross	5	10	10
Rowing	Rowing	30	10	10
Rugby Union	Fifteens	10	10	10
Rugby Union	Sevens	10	10	10
Sailing	All	5	5	5
Sambo	Sambo	10	10	10
Savate	All	10	10	10
Sepaktakraw	All	0	0	0
Shooting	All	0	0	0
Skating	Figure Skating	10	10	10
Skating	Short Track	15	10	10
Skating	Speed Skating 1500m or less	15	10	10
Skating	Speed Skating greater than 1500m	30	10	10
Skating	Synchronized Skating	10	5	5
Skiing	Alpine	15	10	10
Skiing	Cross-Country	60	10	10
Skiing	Nordic Combined	30	10	10
Skiing	Freestyle (all subdisciplines)	10	5	5
Skiing	Ski Jumping	0	5	5
Skiing	Snowboard (all subdisciplines)	10	5	5
Ski Mountaineering	Ski Mountaineering	30	5	5
Sleddog	Sleddog	0	0	0

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SPORT	DISCIPLINE	ERAs %	GH % ⁸	GHRFs %
Soft Tennis	Soft Tennis	5	5	5
Softball	Softball	5	10	10
Sport Climbing	Boulder	10	10	10
Sport Climbing	Combined	10	10	10
Sport Climbing	Lead	10	10	10
Sport Climbing	Speed	10	10	10
Sport Fishing	Sport Fishing	0	0	0
Squash	Squash	10	5	5
Sumo	Sumo	10	10	10
Surfing	All	10	5	5
Table Tennis	Table Tennis	5	5	5
Taekwondo	Poomsae	5	5	5
Taekwondo	Sparring	10	10	10
Tennis	Tennis	10	5	5
Teqball	Teqball	5	5	5
Triathlon	All	60	10	10
Tug of War	Tug of War	5	10	10
Underwater Sports	Aquathlon (Underwater Wrestling)	15	10	10
Underwater Sports	Finswimming Open Water	30	5	5
Underwater Sports	Finswimming Pool	15	5	5
Underwater Sports	Free Diving (all apnoea subdisciplines)	15	5	5
Underwater Sports	UW Orienteering	15	5	5
Underwater Sports	Spearfishing	15	5	5
Underwater Sports	Sport Diving	15	5	5
Underwater Sports	Target Shooting	0	0	0
Underwater Sports	UW Hockey	5	5	5
Underwater Sports	UW Rugby	5	5	5
Volleyball	Beach	5	5	5
Volleyball	Volleyball	5	5	5
Waterskiing	Barefoot	5	5	5
Waterskiing	Cable Wakeboard	5	5	5
Waterskiing	Cableski	5	5	5

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SPORT	DISCIPLINE	ERAs %	GH % ⁸	GHRFs %
Waterskiing	Racing Water Ski	5	5	5
Waterskiing	Tournament	5	5	5
Waterskiing	Wakeboard Boat	5	5	5
Weightlifting	Weightlifting	5	30	30
Wrestling	All	15	10	10
Wushu	Sanda	10	10	10
Wushu	Taolu	5	5	5

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Appendix 2

Minimum Levels of Analysis for Sports and Disciplines of *Athletes* with an Impairment

IPC Sports

SPORT	DISCIPLINE	ERAs %	GH % ⁸	GHRFs %
Para-Athletics	Wheelchair Racing - All Distances All Classes	30	10	10
Para-Athletics	Jumping - All Classes	5	10	10
Para-Athletics	Running Sprints 400m or less - All Classes	5	10	10
Para-Athletics	Running Middle Distance 800m - 1500m All Classes	15 ⁹	10	10
Para-Athletics	Running Endurance - greater than 1500m All Classes	30	5	5
Para-Athletics	Seated Throws - Classes: F31-F34/F51-F53	5	5	5
Para-Athletics	Seated Throws - Classes: F54-F57	5	10	10
Para-Athletics	Standing Throws - All Classes	5	10	10
Para-DanceSport	Para-DanceSport	0	0	0
Para-Ice Hockey	Para-Ice Hockey	5	5	5
Para-Powerlifting	Para-Powerlifting	5	30	30
Para-Swimming	Classes: S1/SB1/SM1-S3/SB3/SM3	5	5	5
Para-Swimming	Classes: S4/SB4/SM4-S9/SB8/SM9	15	5	5
Para-Swimming	Classes: S10/SB9/SM10-S14/SB14	30	10	10
Shooting Para Sport	Shooting Para Sport	0	0	0

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Appendix 3

Non-IPC Sports

SPORT	DISCIPLINE	ERAs %	GH % ⁸	GHRFs %
Archery	Para-Archery	0	0	0
Arm Wrestling	Para-Arm Wrestling	5	15	15
Badminton	Para-Badminton	5	5	5
Basketball	Wheelchair Basketball	5	5	5
Bobsleigh	Para-Bobsleigh	5	5	5
Boccia	Para-Boccia	0	0	0
Canoe	Para-Canoe	10	10	10
Curling	Wheelchair Curling	0	0	0
Cycling	Para-Cycling	30	5	5
Equestrian	Para-Equestrian	0	0	0
Fencing	Wheelchair Fencing	5	5	5
Field Hockey	Para-Field Hockey	5	5	5
Football 5-a-side	Para-Football 5-a-side	5	5	5
Football 7-a-side	Para-Football 7-a-side	5	5	5
Goalball	Goalball	5	5	5
Handball	Wheelchair Handball	5	5	5
Judo	Para-Judo	10	10	10
Rowing	Para-Rowing	30	10	10
Rugby	Wheelchair Rugby	5	5	5
Sailing	Para-Sailing	0	0	0
Skiing	Para-Alpine Skiing	5	5	5
Skiing	Para-Nordic Skiing	30	10	10
Skiing	Para-Snowboard	5	5	5
Sport Climbing	Para Climbing Lead	5	10	10
Surfing	Para Surfing (All subdisciplines)	5	5	5
ParaVolley	Sitting Volleyball	5	5	5
ParaVolley	Beach ParaVolley	5	5	5
Table Tennis	Para-Table Tennis	5	5	5
Taekwondo	Para-Taekwondo-Kyorugi	10	10	10
Tennis	Wheelchair Tennis	5	5	5

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Triathlon	Para-Triathlon	30	10	10
Waterskiing	Disabled	0	0	0