

WADA Technical Document for Sport Specific Analysis

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| Document number: | TDSSA | Version number: | 910.0 |
| Written by: | Strategic Testing Expert Advisory Group | Approved by: | WADA Executive Committee |
| Date: | 16 November 2023 12 September 2024 | Effective date: | 1 January 2024 2025 |

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~~ to 4.

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~~ Outlining 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~~ all Modules of the *ABP* to continue to allow for intelligent *Testing* and targeted analysis e.g., for erythropoietin receptor agonists (ERAs¹); and
- 2.4. Informing ADOs on *Testing* and analysis best practices for those *Prohibited Substances*

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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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 re-assessed once the Endocrine Module² of the *ABP* has been operational for at

² For further information on the Endocrine Module of the *ABP* including access to the Frequently Asked Questions or *Testing strategies*, please contact WADA's *ABP* team at athletpassport@wada-ama.org.

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~~least one year further implemented by ADOs.~~ Implementation of the Endocrine Module³ of the ABP for those sports or disciplines for which the GH MLA ~~of GH~~ is 15% or higher is strongly recommended. For the sports or disciplines with an GH MLA ~~for GH~~ of 10%, ADOs are encouraged to consider the benefits of implementing the Endocrine Module of the ABP. All Samples analyzed as part of the Endocrine Module of the ABP will count towards the GH MLAs of the respective sport or discipline.

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 Guides⁴. 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.

³ 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.

⁴ 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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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)*;
- 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 normal⁵ 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*

⁵ As determined by the *APMU*

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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.

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~~ shall 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.⁶
- **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.
- **Appendix 4:** Minimum Levels of Analysis for Sports and Disciplines of International Federations and other Organizations outside the Olympic/Paralympic Movement

⁶ 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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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 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 mandatory⁷, the total number of athletes eligible for testing, the selection of the *Athletes* to be tested, the selection of the *Sample* matrices

⁷ Except where expressly stated otherwise

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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.

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 – Guidelines for Implementing the Technical Document for Sport Specific Analysis](#), the [WADA Guidelines for Implementing an Effective Testing Program and the TDSSA Testing Guides](#) and the [Frequently Asked Questions \(FAQs\) located in Supporting Document AGuides](#)”³.~~

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.*”

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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 qualify for flexibility in the implementation of the MLAs of up to 50%⁸ 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

⁸ Requests for flexibility in the implementation of the MLAs of more than 50% will not be accepted.

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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):

- 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.

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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~~ WADA's Code Compliance Center or the ~~Application for Flexibility User Guide~~ Application for Flexibility User Guide. If the ADO no longer meets the criteria contained within its application for flexibility, the ADO shall notify WADA.

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-~~ 4 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*

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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.

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 ~~per~~ conducted in the applicable 12-month period between 1 January ~~–and~~ 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

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requirements of the year that the *Sample* was collected than the year the retrospective analysis is requested.

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 % ⁹ | GHRFs % |
|-------------------|--|--------------------------------|-------------------|----------------|
| Aikido | Aikido | 5 0 | 5 0 | 5 0 |
| 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 30 ¹⁰ | 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 |

⁹ The mandatory implementation of the GH MLAs for all sports/disciplines is postponed and will be re-assessed once the Endocrine Module of the ABP has been operational for at least one year further implemented by ADOs.

¹⁰ The ERAs MLA will be ~~was~~ increased from 15% to 30% in the TDSSA v10 that will come ~~came~~ into effect on 1 January 2025. ADOs are encouraged ~~required~~ to adjust their TDP to prepare for ~~the~~ revised ERAs MLA and include the implementation of the Hematological Module of the ABP in this sport/discipline.

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| SPORT | DISCIPLINE | ERAs % | GH % ⁹ | 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 | 15⁹30⁹ | 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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| SPORT | DISCIPLINE | ERAs % | GH % ⁹ | GHRFs % |
|--------------|-------------------------|--------|-------------------|---------|
| 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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| SPORT | DISCIPLINE | ERAs % | GH % ⁹ | GHRFs % |
|-----------------------------|------------------------|---------------------------------|-------------------|---------|
| 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 30 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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| SPORT | DISCIPLINE | ERAs % | GH % ⁹ | GHRFs % |
|--------------------|--|--------|-------------------|---------|
| 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 % ⁹ | 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 % ⁹ | 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 ³⁰ | 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

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

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 |
| <u>Para-Dance Sport</u> | <u>Para-Dance Sport</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| ParaVolley | Sitting Volleyball | 5 | 5 | 5 |
| ParaVolley | Beach ParaVolley | 5 | 5 | 5 |
| Table Tennis | Para-Table Tennis | 5 | 5 | 5 |

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|--------------------|-------------------------------|----|----|----|
| Taekwondo | Para-Taekwondo-Kyorugi | 10 | 10 | 10 |
| Tennis | Wheelchair Tennis | 5 | 5 | 5 |
| Triathlon | Para-Triathlon | 30 | 10 | 10 |
| Waterskiing | Disabled | 0 | 0 | 0 |

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Appendix 4

Minimum Levels of Analysis for Sports and Disciplines of International Federations and other Organizations outside the Olympic/Paralympic Movement

| <u>SPORT</u> | <u>DISCIPLINE</u> | <u>ERAs %</u> | <u>GH %⁸</u> | <u>GHRFs %</u> |
|----------------------------------|----------------------------------|---------------|-------------------------|----------------|
| <u>Australian Rules Football</u> | <u>Australian Rules Football</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Bowls</u> | <u>Bowls</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| <u>Boxing</u> | <u>Boxing</u> | <u>15</u> | <u>10</u> | <u>10</u> |
| <u>Cheerleading</u> | <u>Cheerleading</u> | <u>5</u> | <u>5</u> | <u>5</u> |
| <u>Dodgeball</u> | <u>Dodgeball</u> | <u>5</u> | <u>5</u> | <u>5</u> |
| <u>Esports</u> | <u>Esports</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| <u>Jump Rope</u> | <u>All</u> | <u>10</u> | <u>5</u> | <u>5</u> |
| <u>Karate</u> | <u>WKO Shinkyokushin</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Kettlebell Lifting</u> | <u>Kettlebell Lifting</u> | <u>10</u> | <u>30</u> | <u>30</u> |
| <u>Kudo</u> | <u>Kudo</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Kurash</u> | <u>All</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Mixed Martial Arts</u> | <u>IMMAF Mixed Martial Arts</u> | <u>15</u> | <u>10</u> | <u>10</u> |
| <u>Pole Sports</u> | <u>Pole Sports</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Rafting</u> | <u>Rafting</u> | <u>5</u> | <u>10</u> | <u>10</u> |
| <u>Rugby League</u> | <u>Rugby League</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Table Soccer</u> | <u>Table Soccer</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| <u>Taekwondo</u> | <u>ITF Austria Taekwondo</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Taekwondo</u> | <u>ITF Switzerland Taekwondo</u> | <u>10</u> | <u>10</u> | <u>10</u> |
| <u>Triathlon</u> | <u>Ironman</u> | <u>60</u> | <u>10</u> | <u>10</u> |