Athlete Passport Management Unit
Requirements and Procedures

1.0 Introduction
This Technical Document (TD) has been established to harmonize effective management of Athlete Passports by providing specific requirements that an Athlete Passport Management Unit (APMU) shall meet in order to be a WADA-approved APMU.

2.0 APMU Roles and Responsibilities
2.1 The APMU is the dedicated unit that is responsible for the timely management of Passports in the Anti-Doping Administration and Management System (ADAMS) on behalf of the Passport Custodian. Passport management by the APMU involves:

   a) Performing Passport assessments to make timely Target Testing recommendations to the Passport Custodian via the APMU Report in ADAMS when appropriate; and

   b) Managing the review of atypical Passports according to Annex C of the International Standard for Results Management (ISRM) [1], including, but not limited to, the following:

      • Issuing and updating APMU Reports in ADAMS,
      • In case of an Atypical Passport Finding (ATPF), or when a review is otherwise justified, assigning and liaising with the Expert panel as required,
      • Compiling all necessary information to establish an Athlete Biological Passport (ABP) Documentation Package, and
      • Declaring Adverse Passport Findings (APFs) to the Passport Custodian and WADA.

2.2 The APMU shall assess and manage Passport Sample validity in ADAMS, in consultation with the Experts or Laboratories when necessary per Article 8.2 of this TD.

2.3 The APMU shall provide support to the Passport Custodian in defining priorities in order to optimize the efficiency of their ABP program. These priorities may include, but are not limited to, cost efficiency, special analyses, Test Distribution Plans (TDP), and Target Testing.
3.0 APMU Hosting

3.1 An APMU shall be hosted by a Laboratory.

[Comment: Hosting in this context is defined as the provision of facilities and resources for the efficient functioning of the APMU.]

3.2 APMU hosting by a Laboratory does not preclude the use of qualified APMU managers employed by ADOs or other Laboratories.

3.3 Passport management shall be carried out in ADAMS using dedicated APMU accounts associated with the host Laboratory regardless of the physical location of the APMU manager(s).

3.4 The host Laboratory shall implement procedures to maintain the operational independence of the APMU, including the appointment of dedicated personnel with a specified time commitment to the APMU and a separate allocation in the budget so that the APMU can continue to function should the WADA accreditation of the Laboratory be suspended (see Article 7.1.5 of this TD).

4.0 APMU Personnel

4.1 The host Laboratory shall have a Person qualified to function as the designated head of the APMU by assuming professional, organizational, educational, and administrative responsibility of the APMU. The APMU Director is responsible for ensuring the APMU operates in compliance with this TD and applicable International Standards. In particular, the APMU Director assumes the responsibility of signing and delivering all APFs to the Passport Custodian and WADA.

[Comment: The head of the APMU is termed “Director” herein, however use of this title is not a requirement and can be adjusted according to the needs of the organization.]

4.1.1 The APMU Director’s qualifications shall ensure that he or she is competent and capable of leading the APMU operations, including:

- A doctoral degree (or equivalent) in one of the natural sciences or medicine, or in the absence of a doctoral degree, a master’s degree (or equivalent) with extensive and appropriate anti-doping science experience and training (i.e., minimum of five (5) years);
- Management experience;
- Ability to oversee compliance with quality management practices; and
- Good command of at least one of WADA’s two official languages, English and French.

It is acknowledged that the APMU Director plays an essential role in the APMU operations and that WADA APMU approval is delivered based upon appointment of a proper candidate. WADA reserves the right to review the credentials of such appointment in accordance with the above qualifications.
4.1.2 The APMU Director is responsible for maintaining documentation for each personnel employed by, or under contract to, the APMU. Such documentation shall contain copies of the curriculum vitae or qualification form, a job description, and records of initial and ongoing training related to anti-doping.

4.1.3 Any personnel changes to the position of APMU Director shall be communicated to WADA no later than one (1) month prior to the date the APMU Director is scheduled to vacate his/her position. A succession plan shall be submitted to WADA.

4.1.4 The APMU Director is notably responsible for monitoring the quality of Passport management and ensuring that other APMU personnel have the experience and training necessary to perform their duties.

4.2 The APMU shall use qualified scientific personnel to serve as APMU manager(s) to manage the Passport review process and Sample validity, and to provide Target Testing and Analytical Testing recommendations through APMU Reports in ADAMS. APMU manager(s) shall be employed by the host Laboratory or be under contract by an ADO or another Laboratory. The APMU should have at least one APMU manager per Module of the ABP.

[Comment: The designation of “manager” is used herein, however use of this title is not a requirement and can be adjusted according to the needs of the organization. The APMU Director can also serve in the role of APMU manager as required. Where the APMU manager is employed by an ADO, it is assumed that this individual will have access to the identity and other privileged or confidential information about the Athlete, past Testing and/or Results Management and investigations history. This additional information shall not be shared by the APMU manager in the APMU Report but is recognized to be important to contribute to effective Target Testing.]

4.2.1 APMU manager(s) shall have qualifications in one or more Modules of the ABP. The qualifications are at minimum:

- Bachelor’s degree (or equivalent) in one of the natural or health sciences. Documented experience of three (3) years or more in anti-doping or similar scientific training is equivalent to a Bachelor’s degree for this position; and

- Adequate training in one or more Modules of the ABP, capacity to understand and evaluate analytical results and the physiological response to the Use of Prohibited Substances and Prohibited Methods, as well as criteria relevant for Target Testing.

4.2.2 Where the APMU manager has strong qualifications in Laboratory steroid analysis, steroid doping and metabolism and/or clinical endocrinology, and is not employed by the Passport Custodian, the APMU manager can act as a first Expert for the Steroidal Module of the ABP.

4.3 The APMU should have administrative personnel to coordinate with the Passport Custodian to compile the necessary documentation required for the ABP Documentation Packages, manage communication with various stakeholders and assist with the organization of APMU-related documentation.
5.0 APMU Confidentiality and Security

5.1 All APMU related activities shall be carried out in accordance with the confidentiality requirements of the Code and International Standards.

5.2 While APMU activities are typically carried out using Passport data associated with a unique ID, and while APMU staff generally do not have access to data that would enable them to identify Athletes in ADAMS, APMUs may access Personal Information where additional information is needed to assess a Passport (e.g., when assessing a Passport that has generated an ATPF). In such contexts, Personal Information shall only be processed for the purposes set out in this TD, and shall be handled by the APMU in accordance with the International Standard for the Protection of Privacy and Personal Information (ISPPPI) [2] and applicable laws.

5.3 Without limiting the above, the APMU shall adhere to those information retention times set forth in Annex A of the ISPPPI. In consultation with the Passport Custodian, the APMU shall develop specific plans and procedures to ensure the secure retention and eventual destruction of Personal Information.

5.4 The APMU shall develop, maintain, implement and ensure ongoing compliance with a written information security program that includes physical, organizational, technical, environmental and operational safeguards appropriate to the sensitivity of the information in its custody or to which it has access. Such program shall be based on a threat and risk assessment by expert(s) in the relevant field, and shall ensure the confidentiality of its procedures and security of its information systems regardless of the physical location of the APMU personnel at the time of Passport management, such as when the APMU manager is physically located in an ADO, another Laboratory or when travelling.

6.0 ABP Expert Panel

6.1 The APMU shall engage the services of qualified Experts for the review of Passports in accordance with Annex C of the ISRM [1].

6.2 The APMU shall establish, in consultation with the Passport Custodian, a list of Experts who are qualified to comprise an Expert panel for the review of Passports.

- For the Haematological Module, the Expert panel should consist of at least three (3) Experts who have qualifications in one or more of the fields of clinical and laboratory haematology, sports medicine and exercise physiology, as they apply to blood doping;
- For the Steroidal Module, the Expert panel should be composed of at least three (3) individuals with qualifications in the fields of Laboratory steroid analysis, steroid doping and metabolism and/or clinical endocrinology;
- All three (3) Experts forming an Expert panel assigned to review a particular Passport shall not be of one and the same nationality and no two (2) Experts shall have a primary affiliation with the
same organization, institution or company, including, but not limited to, universities, hospitals and research institutes.

- At least one Expert on the Expert panel shall currently serve or have previously served as an Expert and reviewed Passports for a WADA-approved APMU.

6.3 The APMU shall ensure that each Expert:

- Has access to relevant ABP Expert education resources provided by WADA;
- Has an Expert account created in ADAMS by the APMU for the anonymous review of Passports;
- Is independent of the Passport Custodian and has no conflicts of interest in reviewing Passports, as documented in a conflict of interest declaration; and
- Has signed the WADA ABP Expert Code of Conduct.

[Comment: An APMU manager may also concurrently serve as an Expert for other APMUs, provided all requirements of Article 6.0 of this TD are met.]

7.0 Process and Requirements for WADA APMU Approval

Passports shall only be managed by APMUs that have been approved by WADA.

7.1 Applying for WADA APMU Approval

7.1.1 Expression of Interest

The candidate APMU shall officially contact WADA in writing to express its interest in the WADA APMU approval process.

7.1.2 Preliminary Discussion with WADA

The purpose of this discussion is to clarify issues with regard to the approval process and to obtain information about different aspects of the APMU relevant to the approval process. Such a discussion could be conducted prior to or during the approval process.

7.1.3 Description of the Candidate APMU

The candidate APMU shall then complete a detailed application form provided by WADA and submit it to WADA no later than eight (8) weeks following receipt. The application form includes, but is not limited to, the following:

- List of staff, their qualifications and intended role within the APMU;
• Description of the APMU information security program (see Article 5.4 of this TD), including a description of the physical, organizational, technical, environmental and operational security measures implemented to protect records and computer systems;

• List of external Experts, their contact information, and their qualifications;

• Business Plan for the APMU and letters of support from ADOs that demonstrate a commitment to manage, according to Article 2.0 of this TD, a minimum of 100 haematological Passports and 500 steroidal Passports from Signatories annually, within one year of receiving approval. An eligible Business Plan shall demonstrate a commitment to provide at least 200 APMU Reports for haematological Passports and 500 APMU Reports for steroidal Passports per year.

7.1.4 Liability Insurance Coverage

The APMU shall provide documentation to WADA that professional liability risk insurance coverage or equivalent has been obtained which covers the APMU to an amount of no less than \( \geq \) 2 million USD annually, and should ensure that the Expert panel has suitable professional liability risk insurance or equivalent coverage.

7.1.5 Operational Independence

The APMU shall ensure a degree of operational independence from the host Laboratory such that the APMU can continue to fulfil its responsibilities in compliance with this TD should the WADA accreditation of the Laboratory be suspended, where the reason for the Suspension does not have an impact on the function of the APMU. Operational independence implies that the APMU shall have a separate allocation in the budget and sufficient technical and human resources to permit the APMU to manage its own affairs without hindrance or interference by host Laboratories.

7.1.6 Compliance with the WADA APMU Code of Ethics

The candidate APMU shall implement and comply with the provisions in the WADA APMU Code of Ethics. The APMU shall provide the APMU Code of Ethics to APMU personnel and ensure their understanding and compliance with all aspects. The candidate APMU shall provide to WADA a letter of compliance with the APMU Code of Ethics, signed by the APMU director.

7.1.7 WADA Recommendation for Approval

After receipt of the application form, WADA will complete and submit a report to the candidate APMU. The report will include a recommendation concerning approval of the candidate APMU. In the case where the recommendation is that the APMU should not be approved, the report will identify improvements required in order to be re-considered for designation as a WADA-approved APMU. In the case where the recommendation is that the APMU should be approved, the report and recommendation will be submitted to the WADA Executive Committee for approval.
7.1.8 Issuing Approval Letter and Publishing APMU List on WADA’s Website

A letter signed by a duly authorized representative of WADA shall be issued in recognition of approval of an APMU. Such letter shall specify the name of the APMU and the period for which the approval is valid. Approval may be granted with retroactive effect. An updated list of approved APMUs shall be published by WADA on WADA’s website.

7.2 Maintaining WADA Approval

An APMU shall continue to function if the Laboratory’s accreditation is suspended, provided that the APMU continues to meet other criteria for approval, and that any non-conformities related to the Suspension of the Laboratory’s accreditation do not have an impact on the APMU. The APMU’s approval shall be revoked if the WADA accreditation of the associated Laboratory is revoked.

[Comment: Suspension or Revocation of APMU approval shall not be considered in decisions on Suspension or Revocation of Laboratory accreditation unless the APMU non-compliance has a clear impact on the function of the Laboratory.]

7.2.1 Minimum Number of Passports and APMU Reports

In order to maintain proficiency, WADA-approved APMUs are required to review a minimum number of Passports and provide APMU Reports for Passports of Signatory Passport Custodians. WADA shall monitor the total number of Passports under the responsibility of the APMU and the number of APMU Reports issued by the APMU. If the annual number falls below 100 haematological Passports, 500 steroidal Passports, 200 haematological APMU Reports or 500 steroidal APMU Reports, WADA APMU approval may be suspended or revoked.

7.2.2 Documenting Compliance with the WADA APMU Code of Ethics

The APMU shall annually provide to WADA a letter of compliance with the provisions of the APMU Code of Ethics, signed by the APMU Director. All APMU personnel shall sign the WADA APMU Code of Ethics on a yearly basis and the signed documents shall be kept as part of their personnel file. The APMU may be asked to provide documentation demonstrating compliance with the provisions of the APMU Code of Ethics.

7.2.3 Documenting Sharing of Knowledge

The APMU shall proactively share knowledge with other WADA-approved APMUs. The APMU should participate at least once annually in a WADA Working Group or an anti-doping symposium or conference. The APMU shall supply an annual report on sharing of knowledge with WADA. A description of this sharing of knowledge is provided in the WADA APMU Code of Ethics.
7.2.4 Maintaining Professional Liability Insurance Coverage

The APMU shall maintain an ongoing professional liability risk insurance coverage or equivalent which covers the APMU to an amount of no less than (≥) 2 million USD annually, and should ensure that the Expert panel has suitable professional liability risk insurance or equivalent coverage. Proof of the corresponding coverage shall be provided to WADA upon request.

7.2.5 APMU Compliance Monitoring by WADA

WADA shall monitor the compliance of APMUs against the requirements listed in applicable International Standards and TDs. In addition, WADA shall also conduct at least an annual review of APMU compliance and any other relevant information received or collected by WADA to assess the overall performance of each APMU and to decide its approval status.

7.2.6 APMU Assessment by WADA

WADA reserves the right to conduct document-based audits as well as inspect and assess the APMU through on-site or remote assessments at any time, at WADA’s expense. The notice of an on-site assessment will be made in writing to the APMU Director. In exceptional circumstances, the on-site assessment may be unannounced.

7.2.7 Suspension or Revocation of Approval

Suspension or Revocation of APMU approval may occur whenever the APMU fails to comply with applicable International Standards and/or TDs, or where such measure is otherwise required in order to protect the interests of the anti-doping community.

Without limitation, the following nonconformities in the routine operations of an APMU may be considered in support of Suspension:

- Failure to comply with any of the requirements listed in applicable International Standards and/or TDs;
- Failure to cooperate with WADA or the relevant Testing Authority in providing documentation;
- Noncompliance(s) with the APMU Code of Ethics;
- Major changes in key staff without proper and timely notification to WADA;
- Failure to cooperate in any WADA inquiry in relation to the activities of the APMU;
- Noncompliance(s) identified from APMU assessment(s); or
- Loss of resources jeopardizing the quality and/or viability of the APMU.

Noncompliance(s) in APMU performance will be assessed by WADA on a case-by-case basis considering the severity and consequences to the anti-doping system. Evidence of serious or multiple
noncompliance(s) will be reported by WADA to an external assessment panel, who will make a recommendation to WADA regarding the approval status of the APMU and the required corrective actions and associated deadlines. WADA reserves the right to provisionally suspend an APMU’s approval pending a full investigation. Such a decision may be taken by the Chair of WADA’s Executive Committee.

The period and terms of Suspension shall be proportionate to the seriousness of the noncompliance(s) and the need to ensure reliable management of Athlete Passports. A period of Suspension shall be of a duration to be decided by WADA and up to a maximum of six (6) months, during which time any nonconformity(ies) must be corrected and such correction documented and reported to WADA. If the nonconformity(ies) is/are not corrected during the initial Suspension period, the Suspension shall either be further extended or the APMU approval revoked. The Suspension period may be extended up to a maximum of an additional six (6) months, based on justifiable delays in implementing the satisfactory corrective actions. If the APMU has provided evidence determined to be satisfactory by WADA that the noncompliance(s) are corrected, the APMU’s approval shall be re-instated. If the APMU has not provided evidence determined to be satisfactory by WADA at the end of the extended Suspension period, not to exceed twelve (12) months, the APMU’s approval shall be revoked.

During the period of Suspension of the APMU, the management of all Athlete Passports shall be transferred by the Passport Custodian to another WADA-approved APMU.

The WADA Executive Committee shall revoke the approval of any APMU if it determines that Revocation is necessary to ensure reliable management of Athlete Passports. Revocation may be based on, but not limited to, the following noncompliances in the routine operations of an APMU:

- Repeated suspensions of WADA APMU approval;
- Systematic failure to comply with applicable International Standards and/or TDs;
- Failure to correct a lack of compliance with any of the requirements listed in applicable International Standards and/or TDs during a Suspension period;
- A serious or repeated violation of the APMU Code of Ethics;
- Repeated and/or continuous failure to cooperate in any WADA inquiry in relation to the activities of the APMU;
- Serious noncompliance(s) identified from APMU assessment(s); or
- Loss of resources jeopardizing the quality and/or viability of the APMU.

7.2.8 Appeals

WADA’s decision to suspend or revoke an APMU’s approval may be appealed in writing by the APMU before CAS within twenty-one (21) days of the date of receipt of notification.
8.0 **Passport Management and Administration**

The APMU shall manage all Passports under the custody of the Passport Custodian.

8.1 **Passport Review Process**

The APMU shall carry out the Passport review process as described in Annex C of the ISRM [1].

8.1.1 When assessing a newly matched Sample in a Passport:

- The APMU shall assess the validity of individual Samples contained within the Passport in ADAMS and address any observed irregularities according to Article 8.2 of this TD by updating the APMU Report;

- The APMU shall review any new Samples within the updated Passport and provide Target Testing, Sample analysis or other recommendations via the APMU Report as required;

- Where required for its analysis, the APMU may request further information from the Passport Custodian including, but not limited to, circumstances and details of Sample collection, transport, and analysis, redacted Athlete Competition schedule, travel history, Athlete performance, redacted Athlete medical information, information on an Adverse Analytical Finding (AAF) that is potentially relevant in the context of the Passport, or altitude/whereabouts information which may help them interpret the new Sample;

- Where the Passport includes elements justifying a review or upon request by the Passport Custodian, the APMU shall send the Passport to an Expert for review.

[Comment: One of the benefits of the ABP is the ability to focus resources on atypical results requiring attention. As such, it is not mandatory for an APMU to review all newly matched Samples under their responsibility that do not generate a specific notification requiring mandatory follow-up. Nevertheless, at the discretion of the Passport Custodian, an APMU may be requested to review normal Passports.]

8.1.2 When assessing a Passport that generated an ATPF:

- The APMU shall review any previous APMU Reports associated with the Passport;

- The APMU shall assess the validity of individual Samples contained within the Passport in ADAMS, address any irregularities according to Article 8.2 of this TD and update the APMU Report accordingly;

- The APMU shall evaluate the need for urgent Target Testing of the Athlete and communicate Testing recommendations to the Passport Custodian via the APMU Report as required;

- The APMU shall assess the need for additional analysis of existing Samples by specific methods (e.g., Agents Affecting Erythropoiesis, Gas Chromatography / Combustion / Isotope Ratio Mass Spectrometry [GC/C/IRMS], etc.) and communicate these to the Passport Custodian via the APMU.
Report as required. The APMU may also recommend specific Sample(s) to be placed in long-term storage.

- If an Expert has previously recommended that follow-up Testing include a minimum number of Samples before further review of an Athlete’s Passport data, the APMU may delay sending the Passport for review until the planned number of Samples have been analyzed;

- If, after managing the Sample validity, the Passport remains atypical, the APMU shall, without delay, send the Passport for review in ADAMS by an Expert according to Article C.2.2 of the ISRM [1]. In the event of an Expert opinion of:
  - “Likely Doping”: the APMU shall update the APMU Report indicating “Likely Doping”, specifying any detailed analysis or Testing recommendations from the Expert (if provided), and continue the Passport review process according to Article C.3 of the ISRM [1];
  - “Suspicious”: the APMU shall update the APMU Report indicating “Suspicious”, highlighting the main atypical features, and outline a Target Testing strategy (if necessary) based on the Expert recommendations, or recommend further analysis (e.g., GC/C/IRMS);
  - “Normal”: the APMU shall update the APMU Report indicating “Normal”, summarizing the review by the Expert and outlining any Testing recommendations provided by the Expert;
  - “Likely Medical Condition”: the APMU shall update the APMU Report indicating “Likely Medical Condition” with submission to additional Experts if recommended in the Expert evaluation and should inform the Athlete via the Passport Custodian. If the first Expert is not a medical doctor, the Passport should be sent to a medical doctor from the Expert panel prior to contacting the Passport Custodian.

8.1.3 When assessing a urine Sample that generated an Atypical Passport Finding - Confirmation Procedure Request (ATPF-CPR; see TD EAAS [3]) for the Steroidal Passport:

- The APMU shall assess the validity of the Sample generating the Confirmation Procedure (CP) request in ADAMS, address any irregularities according to Article 8.2 of this TD and update the APMU Report accordingly;

- When the ATPF-CPR has been triggered for a Sample where the presence of ethanol or other factors impacting the steroid profile have been reported, the APMU shall evaluate the need to perform CP(s) and update the APMU Report accordingly within seven (7) days. Justification not to proceed with CP(s) may include:
  - the presence of ethanol glucuronide (EtG) in a Sample from an Athlete with previous similar findings in his/her Passport with negative GC/C/IRMS results (indicating a pattern of alcohol abuse); or
o communication of the existence of other AAFs reported for the Sample to the APMU by the Passport Custodian or Testing Authority, as applicable, which would likely lead to a maximum sanction; or

o communication of the existence of a Therapeutic Use Exemption (TUE) for the Athlete to the APMU by the Passport Custodian or Testing Authority, as applicable.

[Comment: As stated in the TD EAAS, in such cases, the Passport Custodian, or Testing Authority as applicable, shall advise the Laboratory, in writing and within fifteen (15) days following reception of the ATPF-CPR notification, whether or not to proceed with CP(s) of the Sample’s steroid profile.]

- In cases when an ATPF-CPR is generated for two (2) or more Samples, which are linked to a single Sample Collection Session from the same Athlete, the APMU should advise the Passport Custodian, and Testing Authority as applicable, to prioritize the confirmation of the Sample with the highest concentration of Markers of the steroid profile. In such cases, the Passport Custodian, or Testing Authority as applicable, shall advise the Laboratory, in writing and within fifteen (15) days following reception of the ATPF-CPR notification, whether or not to proceed with CP(s) of the Sample’s steroid profile.

8.1.4 When assessing a Suspicious Steroid Profile Confirmation Procedure Request (SSP-CPR):

The APMU will receive an SSP-CPR notification through ADAMS when there is no existing steroidal Passport for the Athlete in ADAMS (i.e. this is the first Sample in the Athlete’s steroidal Passport), and the Sample’s “steroid profile” meets any of the following criteria:

a) T/E ratio > 4.0;

b) Concentration of T or E (adjusted for the SG) > 200 ng/mL in males or > 50 ng/mL in females;

c) Concentration of A or Etio (adjusted for the SG) > 10,000 ng/mL;

d) Concentration of 5αAdiol (adjusted for the SG) > 250 ng/mL in males or > 150 ng/mL in females.

Upon receipt of an SSP-CPR notification:

- The APMU shall assess the validity of the Sample generating the CP request in ADAMS, address any irregularities according to Article 8.2 of this TD and update the APMU Report accordingly;

- The APMU shall evaluate the need to perform CP(s) and update the APMU Report accordingly within seven (7) days of receipt of the SSP-CPR notification. The Passport Custodian, or Testing Authority as applicable, shall advise the Laboratory, in writing and within fifteen (15) days following receipt of the SSP-CPR notification, whether the Laboratory shall proceed with CP(s).

[Comment: In the absence of an ATPF-CPR or SSP-CPR, the APMU may also make a recommendation for CPs of the steroid profile, based on assessment by the APMU.]
8.1.5 Expert Review of Normal Passports

The APMU should provide the Experts from time to time with Passports for review, even when the values are within normal limits and presenting no suspicious elements, as this will ensure that Experts are provided a balanced perspective on the Athletes’ Passports.

8.2 Management of Sample Validity

8.2.1 The APMU shall assess and manage the validity of urine and ABP blood Samples in ADAMS according to applicable International Standards and TDs, including the ISRM \(^1\), TD EAAS\(^3\) International Standard for Laboratories (ISL) \(^4\), and the International Standard for Testing and Investigations (ISTI)\(^5\).

8.2.2 Any changes in Sample validity made by the APMU shall be noted in applicable fields in ADAMS and in the APMU Report.

8.2.3 Where multiple Samples were provided by an Athlete during a single Sample Collection Session and are present in a Passport, the APMU shall invalidate all but one Sample based on assessment by the APMU.

8.2.4 Where multiple Samples were provided by an Athlete on the same day from different Sample Collection Sessions and are present in a Passport, the APMU may invalidate all but one Sample after assessment by the APMU in consultation with the Passport Custodian, as required.

8.2.5 For urine Samples where a substance(s) that may alter the steroid profile is detected by the Laboratory (e.g., alcohol), the APMU may invalidate the Sample when it is considered to affect the sensitivity of the Adaptive Model to detect changes in future Samples.

8.2.6 For ABP blood Samples of suspicious profiles where the Blood Stability Score (BSS) could not be calculated, the APMU shall assess the collection-to-analysis time (CAT), any available temperature logger data, and the potential degradation of blood Markers, including scattergrams, in order to evaluate Sample validity, liaising with (an) Expert(s) as required.

8.3 The APMU Report

The APMU Report is a central element in the administrative sequence of the ABP that shall be entered and maintained by the APMU in ADAMS. The APMU Report provides an up-to-date overview of the current status of an Athlete’s Passport together with recommendations, as appropriate, for efficient follow-up by the Passport Custodian. The APMU Report serves to update the Passport Custodian, WADA and other ADOs with whom the Passport is shared. In addition, it provides a record of events associated with a Passport in ADAMS.

The APMU Report may include, without limitations:
• Assessments of Sample validity by the APMU and/or Experts;
• Recommendations for complementary Analytical Testing (e.g., Agents Affecting Erythropoiesis, HIF stabilizers, confirmation of steroid profile, GC/C/IRMS, long-term steroid Metabolites, IGF-I analogs, etc.) on Samples collected;
• Recommendations for further Analytical Testing on Samples collected previously;
• Recommendations for long-term storage of Samples for Further Analysis;
• Target Testing recommendations based on available data and Experts’ recommendations; and
• A summary of any recent Expert reviews.

8.3.1 APMU Reports shall be written in English and should not contain any information that could identify the Athlete.

8.3.2 The APMU Report shall not contain any reference to an AAF that may be known to the APMU, with the exception of when the AAF is used by the APMU as a reason not to perform CP(s) following an ATPF-CPR or SSP-CPR for the steroid profile (see Articles 8.1.3 and 8.1.4 of this TD). If the APMU assessment leads to an Expert review, the APMU may, however, separately inform the Expert(s) of the existence of the AAF. Depending on the result of the Expert review, the APMU shall further inform the Results Management Authority managing the AAF of the result of the Expert review, via the Passport Custodian, if that information is potentially relevant in the context of the Results Management based on the AAF.

[Comment: While Passport sharing is strongly encouraged to enhance ADO efficiencies and program effectiveness through exchange of information and mutual recognition of program outcomes, this must be carried out within the framework of the ISPPPI [2] and Article 14.1.4 of the Code [6]. The information regarding an AAF shall therefore not be recorded in the APMU Report and shall not be disclosed unnecessarily. Only those individuals and/or organizations involved in the applicable Results Management process should be privy to this information.]

8.3.3 Target Testing recommendations shall be included in the APMU Report with a sufficient level of detail for the Passport Custodian to conduct effective, timely and appropriate Testing.

8.4 Investigating Urine Exchange

When a urine Sample steroid profile is not consistent with other Sample(s) from the Athlete’s Passport, urine exchange with the urine of another individual may be suspected and confirmed using DNA analysis across multiple Samples. This process is managed and reported according to the following steps:

• When evaluating a newly matched urine Sample, where other Samples exist in the Athlete’s Passport, the APMU shall evaluate the likelihood that all Samples are from the same individual. If a Sample shows inconsistency compared to others in the Passport (e.g. differences in Marker levels), the APMU shall update the APMU Report indicating “Suspicion of Urine Exchange”;
If the APMU suspects urine exchange, an investigation shall be launched by the Passport Custodian, with support from the APMU, using a combination of actions such as Sample storage, confirmation of the steroid profiles of relevant Samples, collection of additional Samples, and/or DNA analysis, as applicable.

8.4.1 The outcomes of this investigation may indicate:

a) Confirmation by DNA analysis that all Samples belong to the same Athlete. In this case, the APMU shall update the APMU Report accordingly.

b) Multiple DNA profiles are present: where at least two (2) different DNA profiles are identified across different Samples, where each urine Sample corresponds to a single DNA profile, however the DNA profile corresponding to the Athlete under investigation is not known. A strategy shall be undertaken in order to obtain additional Samples and the APMU shall update the APMU Report accordingly indicating “Multiple DNA Profiles Identified”.

c) Confirmed urine exchange: where at least two (2) different DNA profiles have been identified, where each urine Sample corresponds to a single DNA profile, and the DNA profile belonging to the Athlete is confirmed with a reasonable degree of certainty (e.g. using multiple Samples, different Sample types, different Sample Collection Personnel). In such cases, the APMU shall update the APMU Report, indicating “Urine Exchange Confirmed”.

d) Mixed Samples: where multiple DNA profiles are found within individual Samples. In such cases, the APMU shall liaise with the Passport Custodian, or Testing Authority as applicable, regarding the Sample in question to explore whether the Laboratory should consider further investigations towards declaring an AAF for Sample Tampering or Attempted Tampering.

[Comment: Where Tampering or Attempted Tampering of a Sample can be established by the analyzing Laboratory based on evidence from that Sample alone (e.g., substitution with another fluid, mixing of urines, addition of proteases to the Sample), the Laboratory can report the finding as an AAF or Atypical Finding for Tampering or Attempted Tampering (see Article 4.0 of the TD EAAS [3]). In contrast, when urine exchange can be established based on steroid profile and/or DNA evidence across multiple Samples, the APMU shall report the finding of confirmed urine exchange to the Passport Custodian, who shall proceed with Results Management according to Code Article 2.2 [6]]

8.5 Analysis of Steroid Esters

When matched blood Samples have been collected during the same Sample Collection Session as urine Samples identified with an atypical or suspicious “steroid profile”, the APMU, in consultation with the Passport Custodian, should consider requesting analysis to detect the presence of steroid ester(s) in the associated serum/plasma.

The detection of steroid ester(s) in serum/plasma also constitutes an unequivocal demonstration of the exogenous origin of the steroid(s). On the other hand, the absence of detectable steroid ester(s) in serum/plasma shall not invalidate an AAF based on the GC/C/IRMS analysis in urine.
8.6 Compiling the ABP Documentation Package

8.6.1 The APMU shall be responsible for compiling the ABP Documentation Package using the template provided by WADA. The Passport Custodian shall collect information and bear the cost of compiling ABP Documentation Packages unless it has established an agreement to share the costs with relevant Testing Authorities.

8.6.2 Upon request by the APMU and as needed to compile the ABP Documentation Package, the Passport Custodian shall provide a detailed Athlete Competition and altitude schedule, relevant information from DCFs, temperature logger and Chain of Custody documentation to the APMU.

8.6.3 The APMU shall confer with the Expert panel to determine the scope of such compilation, including the recommended elements and the number of tests that need to be included. It is only mandatory to have a full blood or urine, as appropriate, ABP Laboratory Documentation Package for those tests that are deemed essential by the Expert panel (see TD LDOC [7]). Other relevant tests, for example those that confirm the baseline levels of a Marker, only require a blood or urine, as appropriate, ABP Laboratory Certificate of Analysis (see TD LDOC [7]). If the Passport Custodian is not the Testing Authority of the test requiring Laboratory documentation, the Passport Custodian shall coordinate with the Testing Authority to obtain such documentation.

8.6.4 The following key information shall be included for both Haematological and Steroidal Modules of the ABP Documentation Package:

- For the Athlete: age (excluding the date of birth), gender, and sport/discipline;
- For all tests: date and time of Sample collection, ADAMS ordinal number of the test in the Passport, Sample code, Marker values and graphical results obtained by the Adaptive Model;
- For tests selected by the APMU and Expert panel:
  - ABP Laboratory Documentation Package(s) and/or ABP Certificate(s) of Analysis from the relevant Laboratory(-ies) and/or ABP Laboratory(-ies) (see TD LDOC [7]); and
  - The Passport Custodian shall provide Chain of Custody documentation, DCF information and a detailed Competition calendar covering the period defined by the selected Samples; and
- A compilation of the latest reviews from the Experts or the joint Expert opinion, as applicable.

For the Haematological Module, the following additional information shall be provided for the tests selected by the APMU and Expert panel:

- Temperature profile during the transportation of the blood Sample and, when available, the BSS; and
• Responses provided by the Athlete on the ABP Supplementary Report Form during the Sample Collection Session.

For the Steroidal Module, the following additional information shall be provided for the tests selected by the APMU and Expert panel:

• pH of the urine Sample;
• Specific gravity (SG) of the urine Sample;
• Laboratory documentation, including screening and confirmed (when applicable) values of steroid concentrations and ratios (see TD LDOC [7] and TD EAAS [3]);
• GC/C/IRMS results, when applicable;
• Indication of ethanol consumption: urinary concentrations of ethanol and/or ethanol Metabolite(s);
• Indication of microbial growth (see TD EAAS [3]); and
• Information on the presence or absence of substances that may alter the steroid profile (see TD EAAS [3]).
9.0 References


[Comment: Current versions of WADA ISL and Technical Documents may be found at https://www.wada-ama.org/en/what-we-do/science-medical/laboratories]