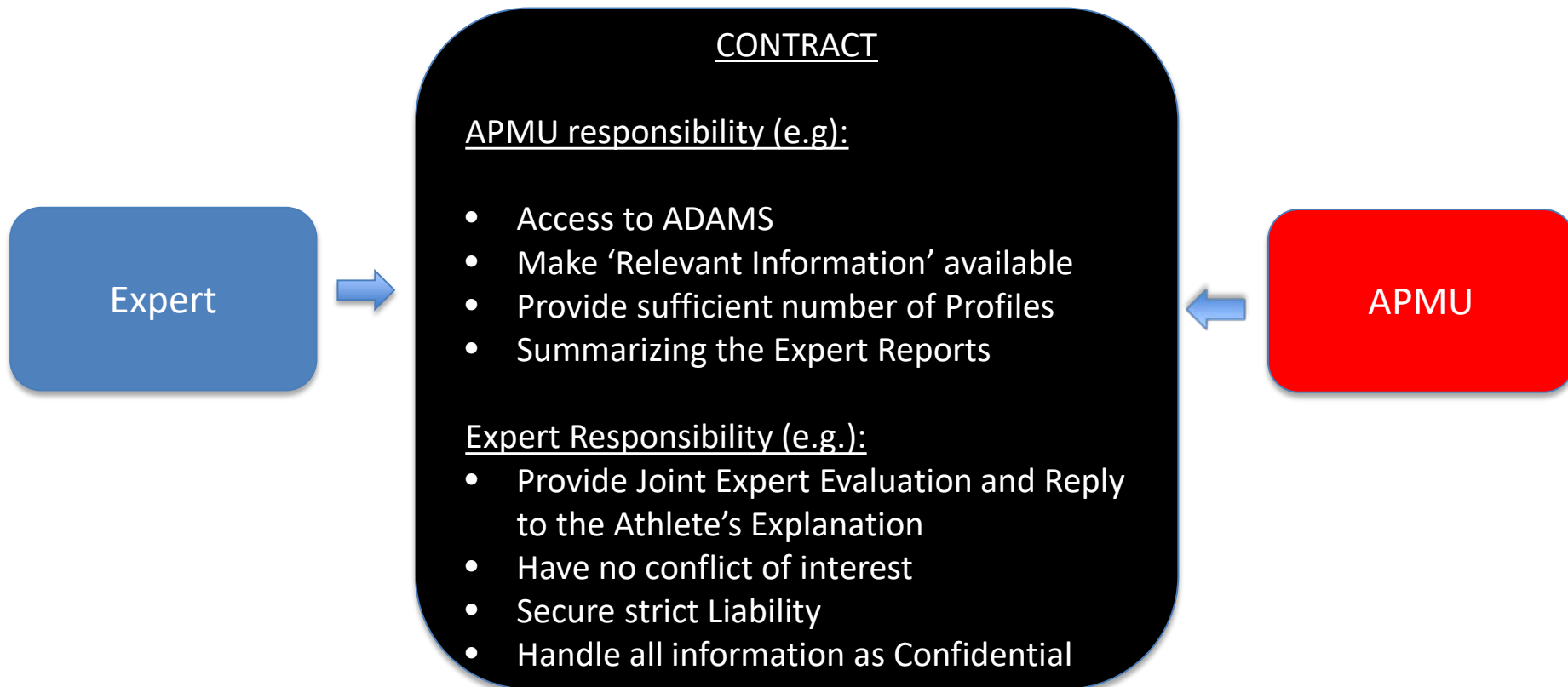


# Practical Elements for Experts

Jakob Mørkeberg

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## Collaboration with APMU



# Passports for Review in ADAMS

ADAMS Log in: Dedicated ADAMS Expert User Account for each APMU Affiliation

Search Passport

HELP contact data privacy legal statement

Hematological Passport Search find list

My zone

Messages

5 Notifications  
No new messages

Export Biological Results

Message List - Internet Explorer  
https://adams.wada-ama.org/adams/requestMessageList.do

Messages create message HELP close

Message centre

- Message
  - received
  - sent
  - archived
- Notification
  - received (46)
  - sent
  - archived

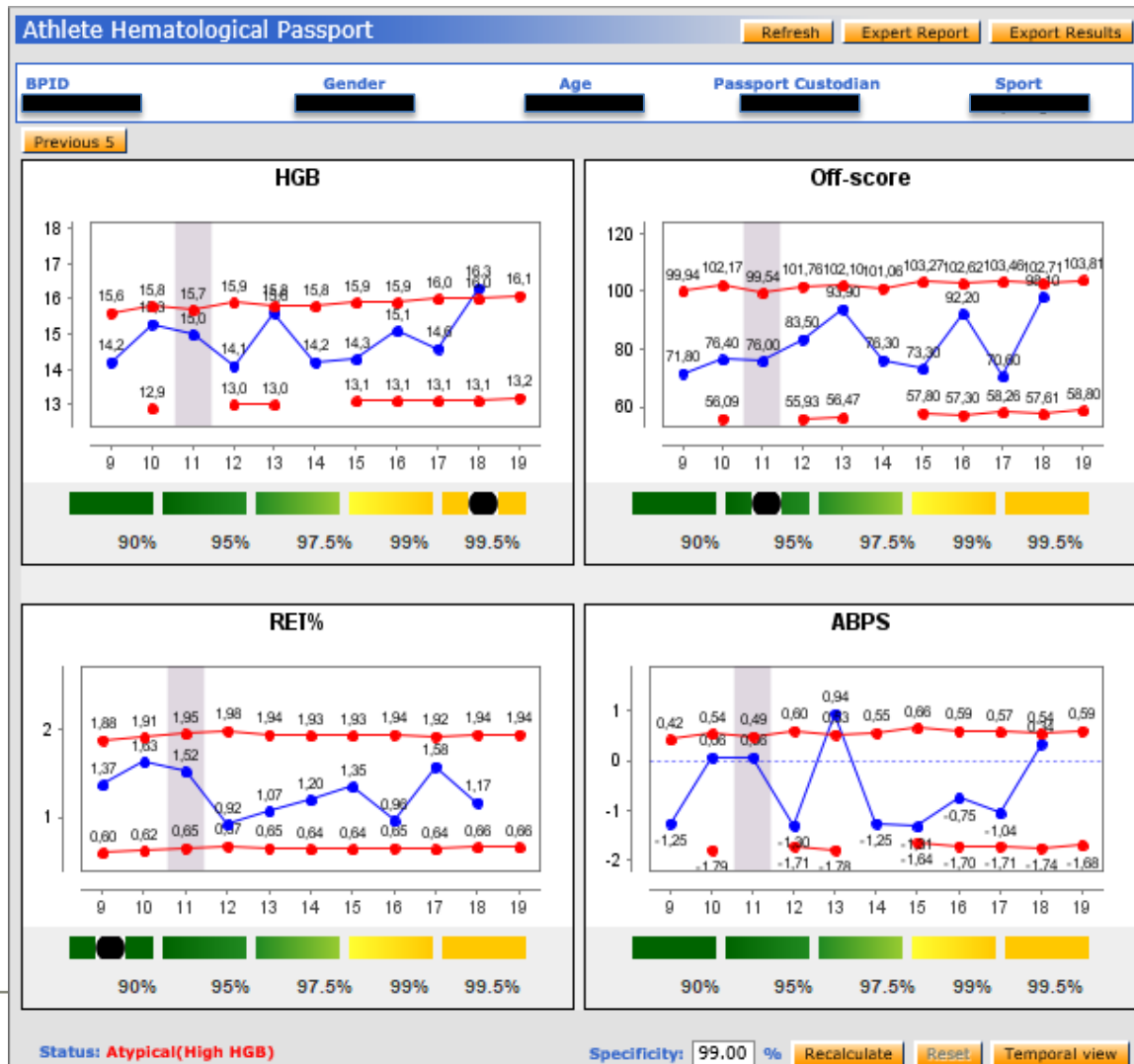
Sender	Subject	Date/Time
<input type="checkbox"/> LAD, APMU hemato (LAB-Lausanne-SUI-LSAD)	AUTO: You have been assigned to review a hematological passport result for athlete with BPID: Q161R37	25-Oct-2018 12:20 GMT (unread)
<input type="checkbox"/> LAD, APMU hemato (LAB-Lausanne-SUI-LSAD)	AUTO: You have been assigned to review a hematological passport result for athlete with BPID: BPN2524N16	24-Oct-2018 12:50 GMT (unread)
<input type="checkbox"/> LAD, APMU hemato (LAB-Lausanne-SUI-LSAD)	AUTO: You have been assigned to review a hematological passport result for athlete with BPID: BP52K0104R3S37E91	24-Oct-2018 11:50 GMT (unread)

Turn around time:  
Not more than 7 working days  
(report vacation☺)

# Athlete information

Of relevance for review:

- Gender
- Age
- Sport



# Accessing information about Confounders (Haematological Module)

Status: **Atypical(High HGB)**      Specificity:  %    [Recalculate](#)    [Reset](#)    [Temporal view](#)

[configure displayed columns](#)

Select#	Sample Code	Test Type	Date of Test	Hemodilution	Validity	HGB [g/dL]	RET% [%]	Off-score [ ]	IRF [%]	MCV [fL]	MCHC [g/dL]	Altitude	MCH [pg]	ABPS	CAT (h)	Lab
<input checked="" type="checkbox"/>	18	OC		No	Valid	16.3	1.17	98.10	12.2	88.4	34.0	1829	30.0	0.34	30	<b>DCF</b> <b>BPLR</b>
<input checked="" type="checkbox"/>	17	OC		No	Valid											
<input checked="" type="checkbox"/>	16	OC		No	Valid											
<input checked="" type="checkbox"/>	15	OC		No	Valid											
<input checked="" type="checkbox"/>	14	OC		Yes	Valid											
<input checked="" type="checkbox"/>	13	OC		No	Valid											

**Samples (2)**    [Notification Details](#)

**Type**     **Sample Code\***     **Time of Collection\***     **Sent to Lab\***     **Partial sample**

**Volume (ml)**     **pH**     **Specific Gravity\***

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**Type**     **Sample Code\***     **Time of Collection\***     **Sent to Lab\***

**Time zone**     **Temp Logger ID**     **Temp Logger Status**

**ABP Supplemental Report Form**

Has the athlete been seated for ten minutes prior to blood collection?     Yes     No

Was the sample collected immediately following at least three consecutive days of competition (hemodilution expected)?     Yes     No

Has the athlete had a training session or competition in the past two hours?     Yes     No

Has the athlete trained, competed or resided at an altitude greater than 1500 meters within the previous two weeks?     Yes     No

Name and location     Altitude(m)

Duration of stay     From     To

Has the athlete used any form of altitude simulation, such as a hypoxic tent, mask, etc during the previous two weeks?     Yes     No

Has the athlete donated blood or lost blood as a result of medical or emergency condition during the previous three months?     Yes     No

Has the athlete given or received any blood transfusion(s) during the previous three months?     Yes     No

Has the Athlete been exposed to any extreme environmental conditions in the 2 hours prior to blood sample collection?     Yes     No

**biological result**

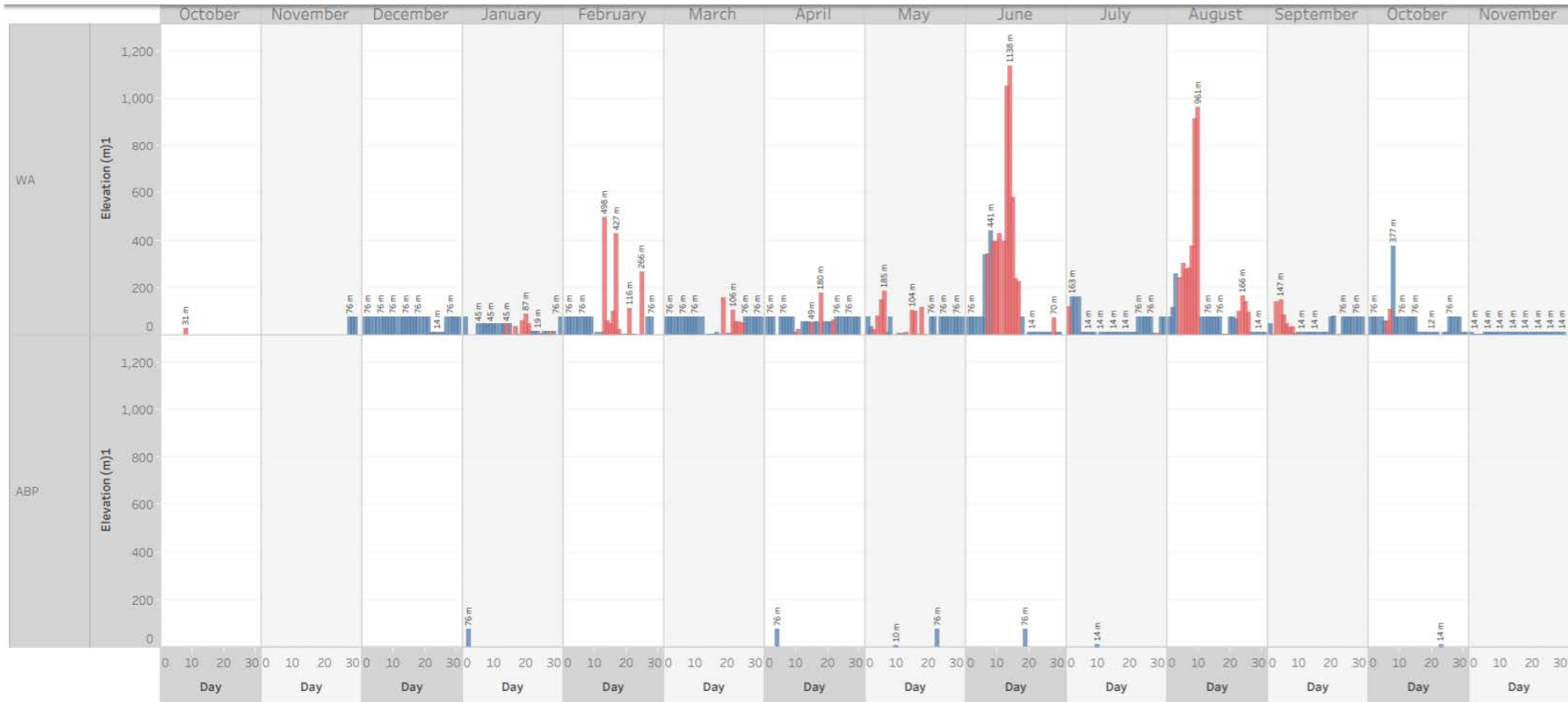
### ADAMS – Additional Information (Competition Schedules, Altitude Schedules etc.)

<input checked="" type="checkbox"/>	4	[REDACTED]	OOB	23-May-2018	No	Valid
<input checked="" type="checkbox"/>	3	[REDACTED]	OOB	10-May-2018	No	Valid
<input checked="" type="checkbox"/>	2	[REDACTED]	OOB	04-Apr-2018	No	Valid
<input checked="" type="checkbox"/>	1	[REDACTED]	OOB	02-Jan-2018	No	Valid

**Documents for Experts**

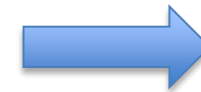
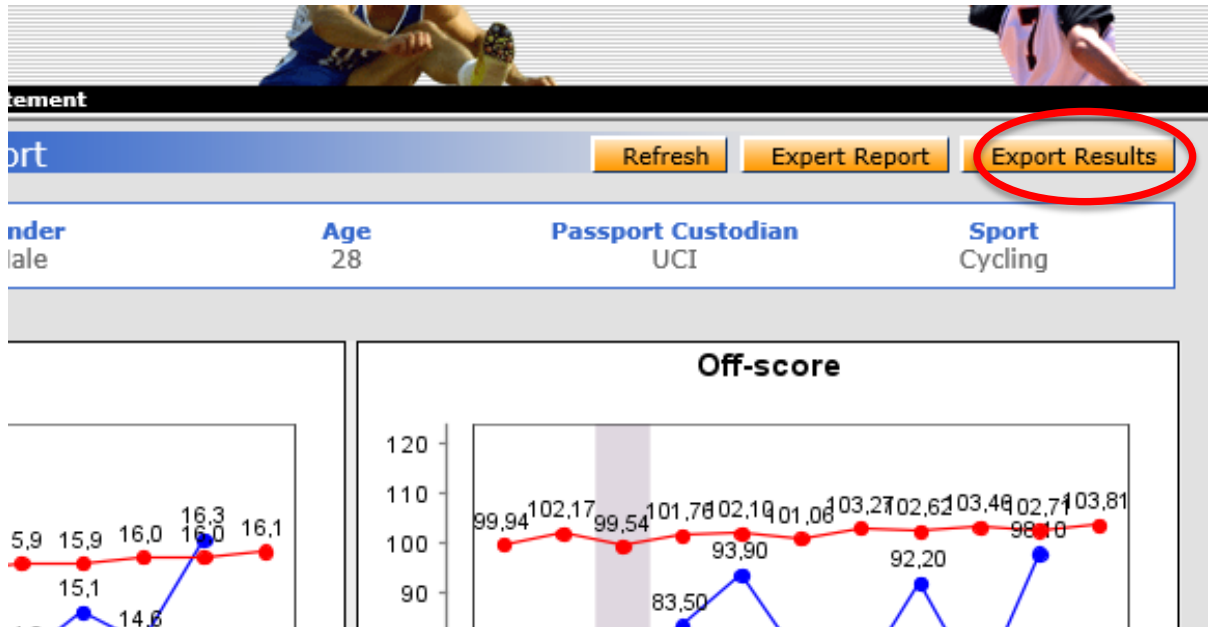
Reference date	Activity	Type
02-Nov-2018	<a href="#">Whereabouts</a>	User Activity
02-Nov-2018	<a href="#">Altitude profile</a>	User Activity
02-Nov-2018	<a href="#">Short Competition Schedule</a>	User Activity

## Example of an Altitude Schedule



Category (group)  
■ IC & Competition  
■ OOC & Overnight Accommodation  
■ Travel

# Futher Data Analysis outside of ADAMS





## Collaboration with other Experts Panelists (3 ‘Likely Doping’)

### Categorizing Samples and Deciding on Lab Doc Packs, Certificate of Analysis (or None)

#### Different Approaches:

- Some APMU provide a suggestion based on all expert evaluations for experts to consider
- Individual expert requests
- Joint Expert Panel request

Sample #	Sample Code	Collection date	Requested document Certificate of analysis (CA) or Laboratory documentation package (LDP)
1			CA *
2			CA *
3			CA *
4			CA *
5			CA
6			CA
7			CA
8			CA
9			CA
10			CA
11			CA
12			CA
13			LDP
14			LDP
15			CA
16			CA
17			LDP
18			LDP
19			LDP
20			LDP
21			LDP
22			LDP
23			LDP
24			LDP

\*: These Samples were analysed more than 10 years ago. Technically, it could be that even CA could not be available.

# Collaboration between Experts

- Drafting the 'Joint Expert Evaluation' and 'Reply to Athlete'
  - Reviewing the ABP Doc Pack, Lab Doc Packs and Certificate of Analysis

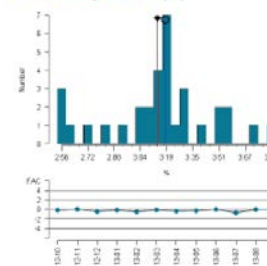
Temperature Profile



Summary of your report

Code	Analyte	Unit	Target value	Your result	FAC Evaluation	WADA assessment
516	B-Reticulocytes WADA	%	3.18	3.14	Excellent	Satisfactory
517	B-Total Haemoglobin WADA	g/L	153	151.86	Excellent	Satisfactory
518	B-Erythrocytes count WADA	E 12/L	5.2	5.15	Excellent	Satisfactory
519	B-Leucocytes count WADA	E 9/L	17.3	17.37	Excellent	Satisfactory
520	B-MCH WADA	pg	29.6	29.47	Excellent	Satisfactory
521	B-MCHC WADA	g/L	359	356.14	Excellent	Satisfactory
522	B-MCV WADA	fL	82.3	82.27	Excellent	Satisfactory
523	B-Thrombocytes count WADA	E 9/L	502	502.07	Excellent	Satisfactory
524	B-Haematocrit WADA	%	43	42.39	Excellent	Satisfactory

B-Reticulocytes WADA [516]



Your results :

Instrument : Sysmex XT 2000

Result : 3.14 %

WADA assessment : Satisfactory

WADA Interval : [2.48-3.91] (21%)

FAC value : -0.05 (Excellent)

Z-Score : -0.23

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Method : Cyanofluo2 [583]

Participants : 33

Target value : 3.18 %

Uncertainty : 0.04 %

SD : 0.19 %

CV : 5.94 %

- One expert volunteers to make the first draft (specific expertise?) – others correct and comment (same when reviewing the reply from the athlete)

## Professional Liability Risk Insurance and Confidentiality

### 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 2 million USD annually, and should ensure that the Expert panel has suitable professional liability risk insurance or equivalent coverage.

- **Requirement probably depends on the national legislation of the country of the APMU**
  - In some countries not required if:
    - It goes through APMU report.
    - Factual, objective and based on scientific solid arguments (needless to say – the evaluation can have major impact on the athlete).
- **Secure Data in ‘your own system’. Currently not possible to communicate/exchange data between experts in ADAMS.**

ANTI DOPING DANMARK



**Thank you!**