

**WADA/JADA SYMPOSIUM ON  
BLOOD MANIPULATIONS AND DOPING IN SPORT  
7-8 NOVEMBER 2009 – TOKYO – JAPAN**



CYCLING  
ANTI-DOPING  
FOUNDATION

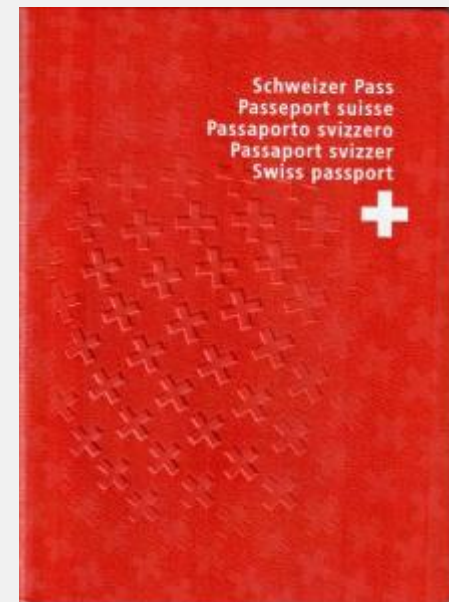
***IMPLEMENTATION OF THE  
BIOLOGICAL PASSPORT BY THE UCI***

Dr Mario Zorzoli

# Overview



- | Before 2008
- | Conditions to fulfil to introduce a BP program
- | Practical aspects
- | Results
- | What we learnt
- | What needs to be improved
- | Beyond 2009



## Before 2008



- | 25000 samples of experience with pre-competition blood health tests (since 1997)
- | Network of accredited labs



- | Consensus of the scientific community
- | Changes in the new WADC

# Conditions to implement a BP



- Whereabouts from each athlete ⇒ ADAMS
- DCO / BCO ⇒ external collection providers
- Standardized procedures ⇒ WADA - LAD
- Network of laboratories ⇒ UCI - WADA
- Statistical tool to compute individual results into athletes' profiles ⇒ ABP software
- Experts to evaluate the profiles ⇒ WADA - UCI
- Finances to run such a program ⇒ stakeholders

# Planned testing program



## 2008

- | 10 blood samples (OOC – IC)
- | 4 urine samples (OOC – IC)

## 2009

- | New athletes: idem
- | Old athletes: 6 blood and 3 urines samples



# Athletes involved



	2008	2009
UCI ProTeams	18	18
Wild Card label Teams	15	13
ProContinental Teams		5
Individual rides	8	26
<b>TOTAL</b>	<b>804</b>	<b>848</b>





# 2008 – Tests conducted



<b>Blood</b>	Out of competition	4997
	In competition	492
<b>Urine</b>	Out of competition	1452 (all EPO)
	In competition	1463
<b>Total</b>		<b>8404</b>

# Tests by 15th October 2009



			Conducted	Planned
<b>Blood</b>	OOC	5108	5709 (851 CERA)	6350
	IC	601		
<b>Urine</b>	OOC	1735 (all EPO)	3361	2800
	IC	1626 (610 EPO)		
<b>Total</b>			<b>9070</b>	<b>9150</b>

# Sample collection providers



- | IC and OOC tests where UCI is the Testing and Result Management Authority:

IDTM (Sweden)	27.7%
PWC (Germany)	15.2%
NADOs	6.1%
ANADO (Canada)	2.4%

- | UCI DCOs 48.6%  
(includes all IC and most pre-competition tests)



# Major challenges: blood transport



- | **Difficult**

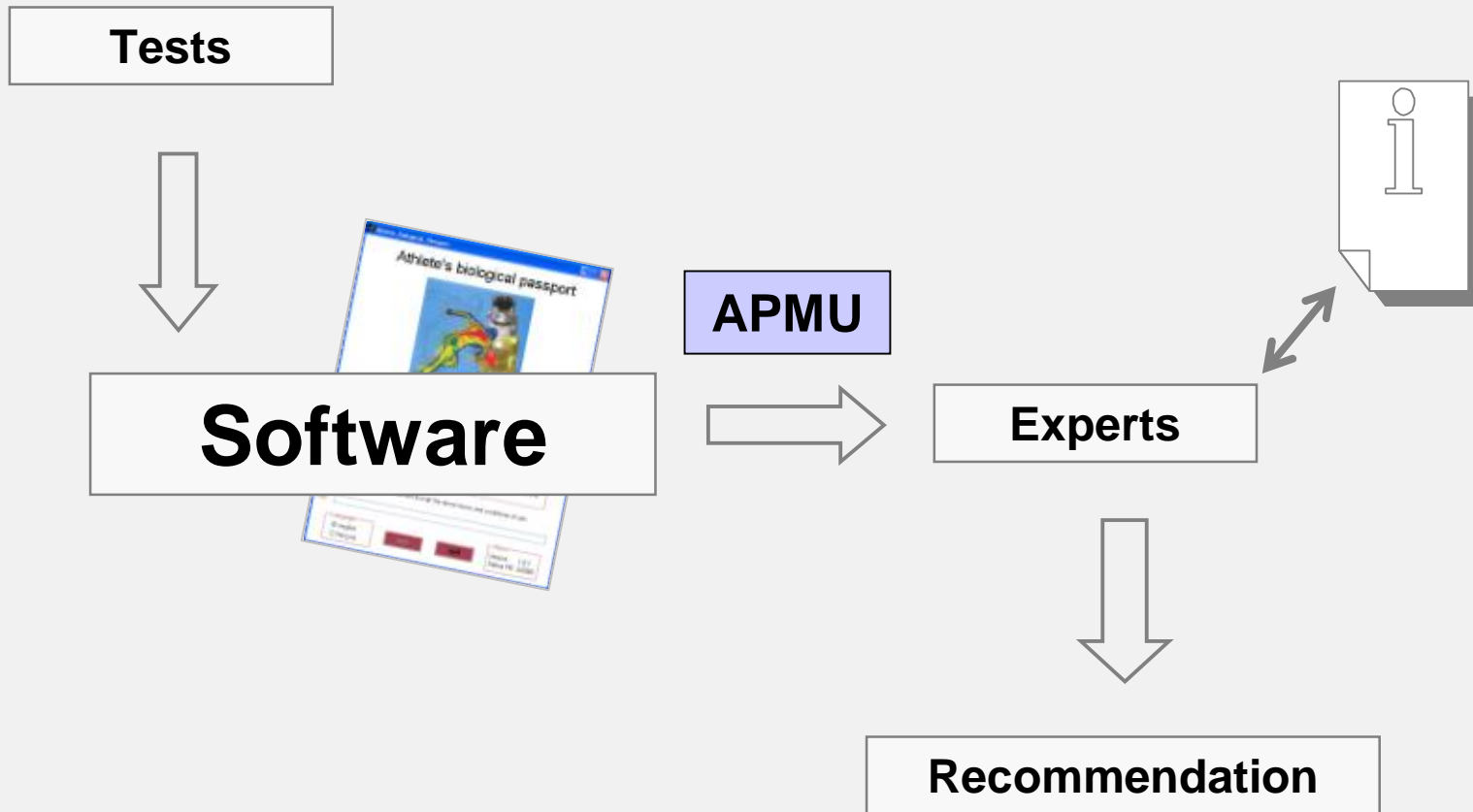
- | 36 hours from collection to lab
- | Temperature – 2 to 12 °C
- | Access to riders' homes



- | **Expensive**

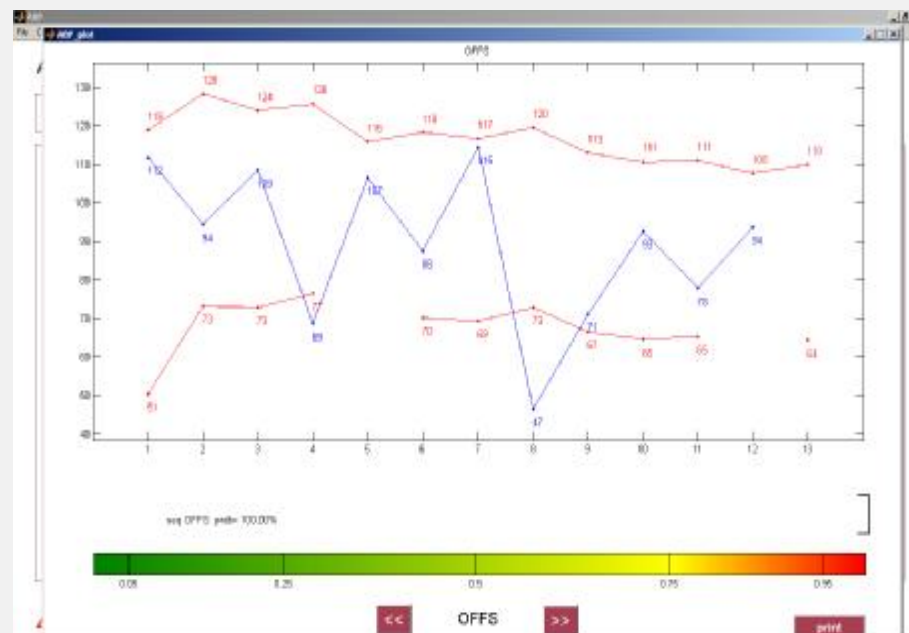
- | Average cost of courier for one transport = € 600
- | We pay the lab €40 and the truck driver € 600

# Anti-Doping Rule Violation



# Step 1

- Each week, all updated profiles which exceed the 99% specificity level are sent to three experts for review



- Usually about 10 – 15 profiles each week

## Step 2

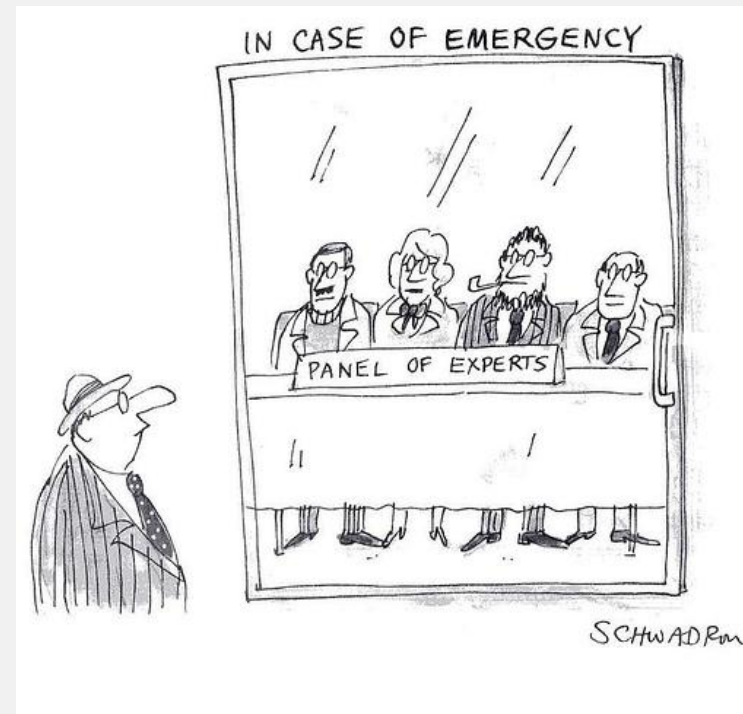


- | Experts provide independent evaluation
  - | Possible doping – more information required
  - | Possible medical condition
  - | Targeted testing
  - | Normal
- | UCI provides extra information
  - | Whereabouts – race schedule, strange journeys
  - | Laboratory documentation packages
  - | Medical information



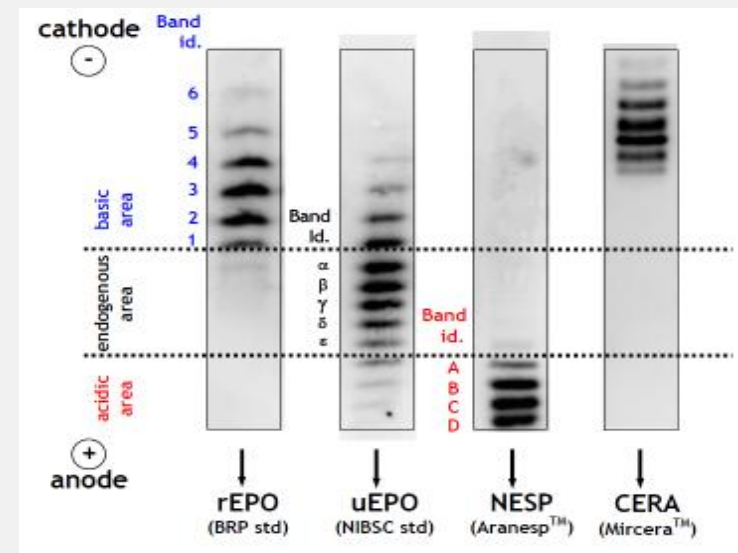
## Step 3

- | When 3 experts agree, they sign a statement asserting that the profile provides  
« **convincing evidence of the use of a prohibited method** »
- | So far we have adopted the option of having all experts together before issuing a signed statement



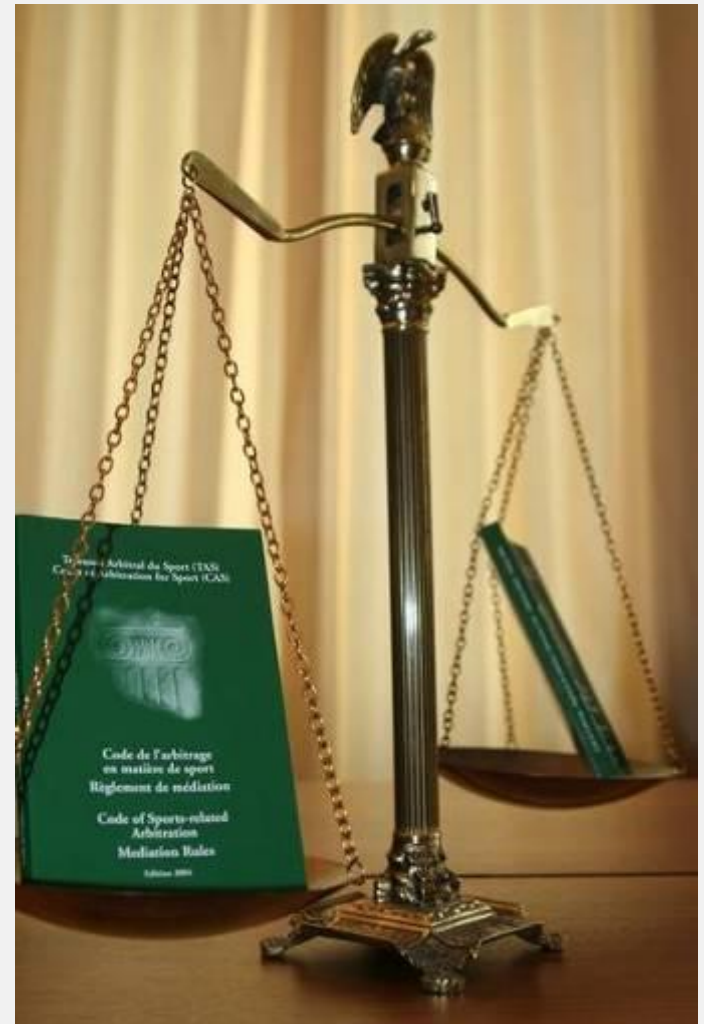
## Step 4

- | Additional evidence can be added (anti-doping tests results, etc.)
- | Preparation of case file for potential anti-doping rule violation (use of forbidden substance or method)
- | Advice to rider
- | Request to National Federation to initiate disciplinary proceedings



## Step 5

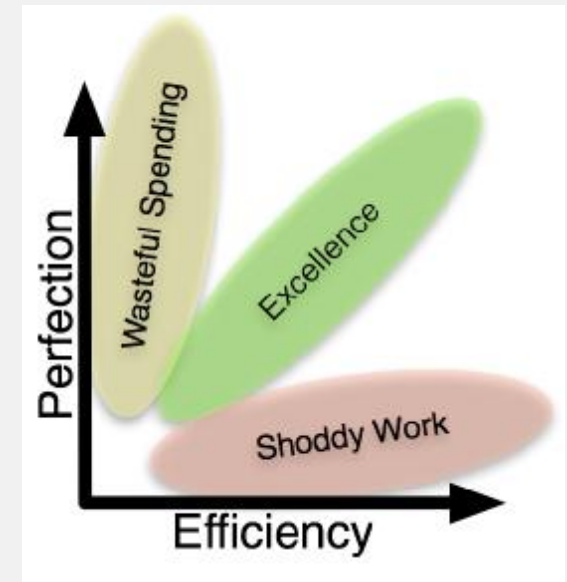
- | Advice to WADA, NADO and team
- | Public announcement
- | No provisional suspension imposed – but it's usually the case
- | UCI and Independent Expert will assist NF when processing the cases



# Is the program effective?



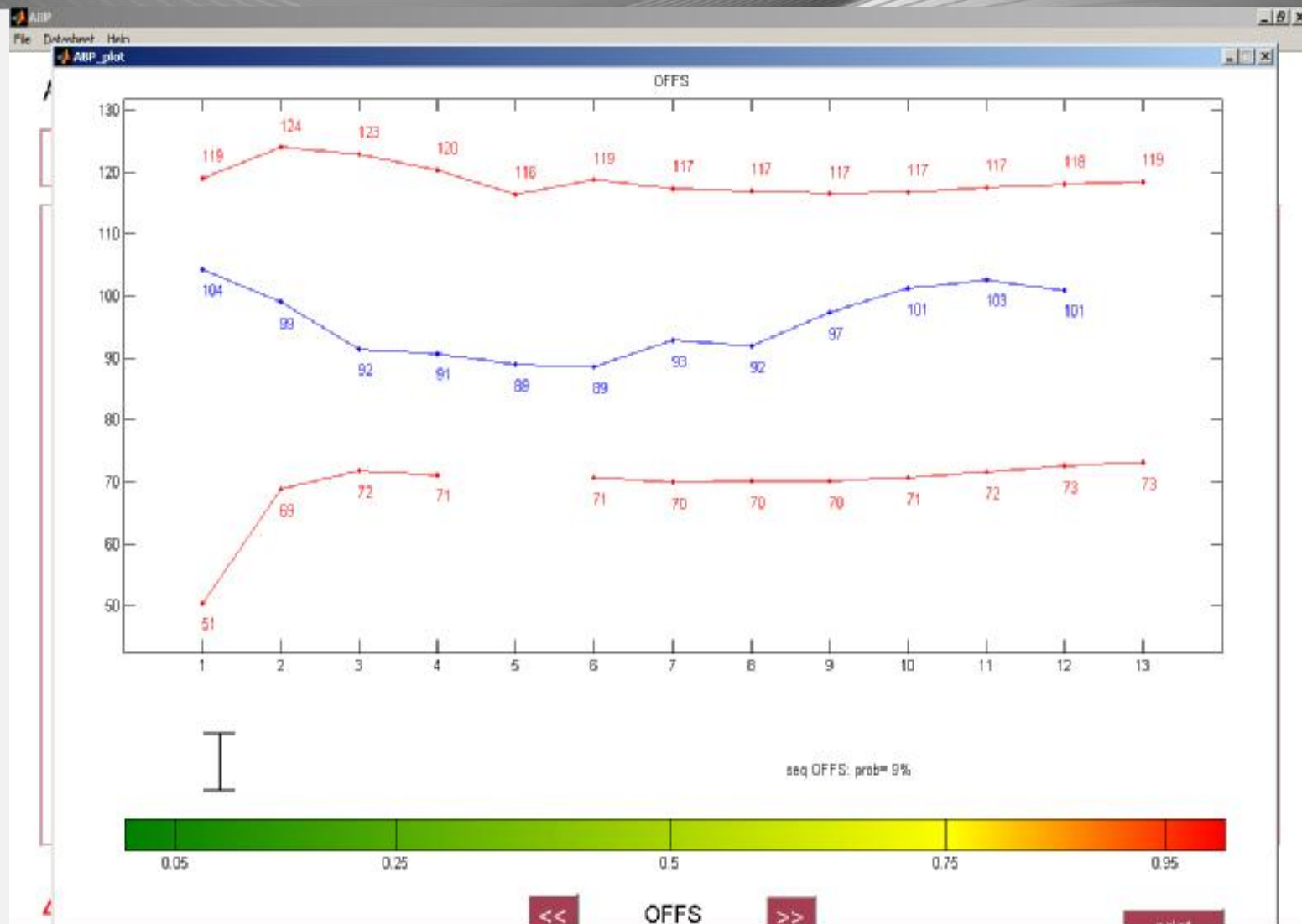
- | Detection
  - | 6 cases opened
  - | Potential new cases to come
- | Targeting
  - | Profiles are used for targeted testing
  - | Several riders found positive
- | Deterrence
  - | “Better” blood values
  - | Feedback from riders and teams
  - | Risks are now perceived as higher
  - | Riders are asked to provide their profile to sign for new teams



# “Tatooning”



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# What we learnt



- | BCO capacity is improving
- | A + B samples is more convenient
- | Transport is a major issue (delays, conditions)
- | WADA anti-doping labs network is to be preferred
- | Extra-value provided by experts
- | Higher deterrence
  - | Unpredictability
  - | Uncertainty
  - | “Tattooing”
- | Stakeholders engagement



# Beyond 2009



- | More targeted tests
- | Increased number of athletes
  - | Future champions?
- | Additional parameters
  - | Urinary steroid profile
  - | Hb Mass
  - | hGH parameters (IGF1, P-III-P, ...)
- | New modules
  - | In competition module

