International Paralympic Committee

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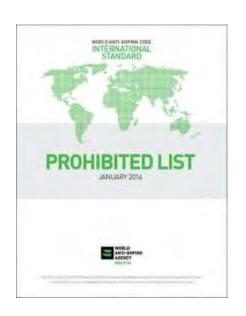
#### **Anti-Doping Updates in Paralympic Sport**

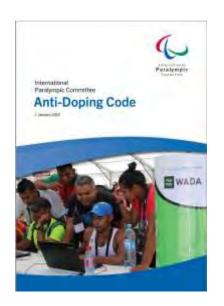
Matthew Fedoruk, Ph.D.





### **Important Resources**









# **Dietary Supplements**

- •**REALIZE** there are safety issues with dietary supplements.
- •RECOGNIZE risk when you see it.
- •REDUCE your risk of testing positive and experiencing health problems by taking concrete steps.

#### Supplement



Of the supplements USADA tested in collaboration with the DoD:











# **Catheters – Glycerol-based lubricants**

- Glycerol is a prohibited substance
- Unintentional positive tests resulting from glycerol-based lubricants
- Updated IPC Position Statement On the Use of Catheters in Doping Control in January 2015
- Glycerol thresholds recently increased by WADA (Kelly, 2013)
- Consider alternatives which do not include the use of glycerol

#### **Intravenous Infusions**





<sup>\*</sup>Exceptions for emergency situations, check the WADA Prohibited List for details.

# The Present and Future of the Athlete Biological Passport



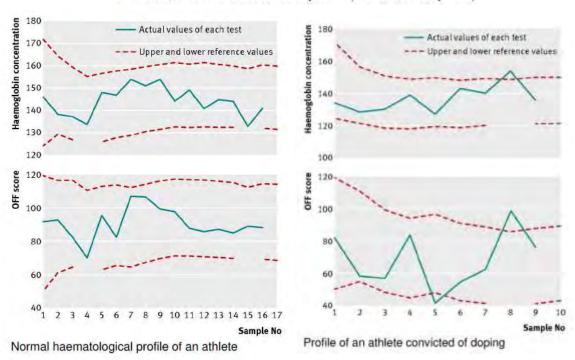
Module	BioMarkers	Status
Haematological	Hb, Ret%, Red Blood Cell Indices	2009
Steroidal	Testosterone (T), T/E, A/T, A/Etio,	2014
Endocrine	Growth Factors (IGF-1, PIIIP)	2017?
-Omics	Genomics, proteomics,	?

Source: WADA



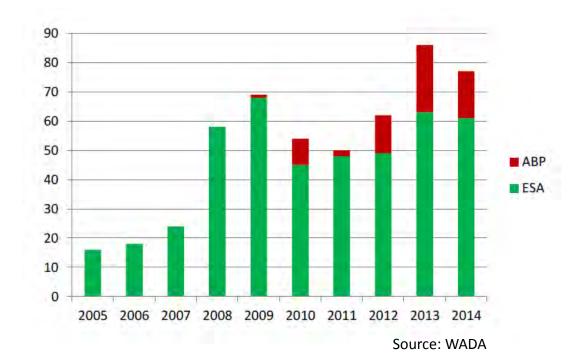


BMJ 2012;344:e2077 doi: 10.1136/bmj.e2077 (Published 22 May 2012)



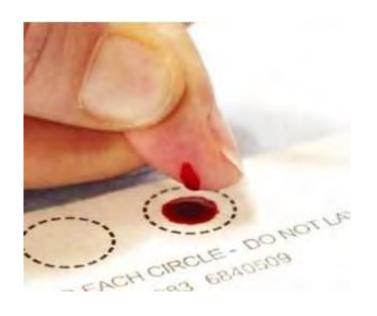
# Number of Blood Doping Cases since 2005





# **Future of Anti-Doping**

Dried Blood Spots & Oral Fluid = Less Invasive Sample Collection







## **Important Reminders**

- Health professionals are key players in protecting clean sport
- Awareness of anti-doping rules, athlete's rights and responsibilities is critical
- Work together with athletes and their medical support staff to be knowledgeable on anti-doping matters
- Act as an athlete representative in the doping control sample collection process
- Ask questions
- Encourage clean sport by acting a positive role model



# **Health Professional Anti-Doping Education**



- https://www.wadaama.org/en/resources/education-andawareness/sport-physicians-tool-kitonline-version
- https://med.stanford.edu/cme/courses /online/USADA.html



Obrigado!