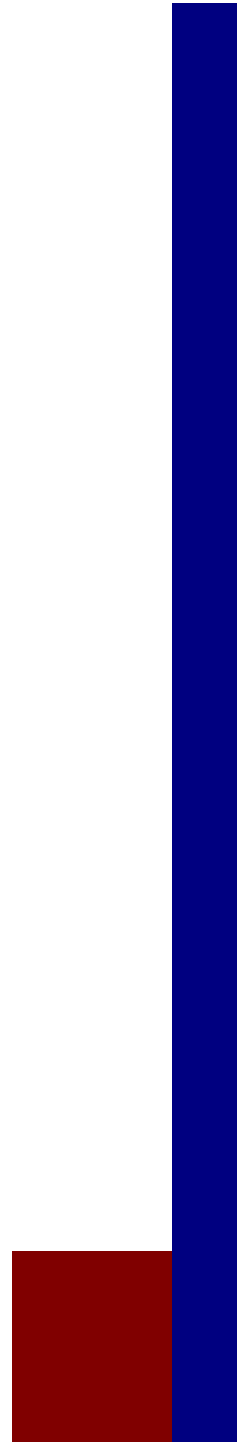


# Therapeutic Use Exemptions Why and when?

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# The World Antidoping Code INTERNATIONAL STANDARD FOR THERAPEUTIC USE EXEMPTIONS

- # The Code permits *Athletes* and their physicians to apply for Therapeutic Use Exemptions i.e. Permission to use, for therapeutic purposes, substances or methods contained in the List of *Prohibited Substances or Methods* whose use is otherwise prohibited.

# Drugs with possible exemption:

## # Respiratory

- Efedrine...
- B<sub>2</sub> agonists
- Corticoesteroids
- Diuretics

## # Cardiocirculatory

- Corticoesteroids
- Diureticos
- B blockers

## # Digestive

- Corticoesteroids
- Opium derivates

## # Oftalmology

- Corticoesteroids
- B blockers

## # Dermatology

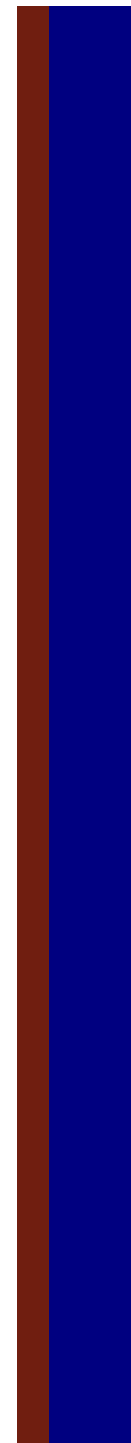
- Corticoesteroids

## # Endocrinology

- Insulin
- Others....

## # Others

- Aromatase inhibitors
- Antibioticotherapy
- .....



# The Athlete would experience a significant impairment to health if the *Prohibited Substance or Prohibited Method* were to be withheld in the course of treating an acute or chronic medical condition.



# The therapeutic use of the *Prohibited Substance or Prohibited Method* would produce no additional enhancement of performance other than that which might be anticipated by a return to a state of normal health following the treatment of a legitimate medical condition.



# There is no reasonable therapeutic alternative to the use of the otherwise *Prohibited Substance or Prohibited Method*.



- # The necessity for the use of the *Prohibited Substance or Prohibited Method* cannot be a consequence of prior nontherapeutic use of any substance from the Prohibited List



# An application for TUE will not be considered for retroactive approval except in cases where:

- ✓ Emergency treatment of an acute medical condition was necessary, or
- ✓ Due to exceptional circumstances, there was insufficient time or opportunity to submit, or a TUEC to consider, an application prior to Doping Control.





# Abbreviated Therapeutic Use Exemptions (ATUE)

- # Some substances included on the *List of Prohibited Substances* are used to treat medical conditions frequently encountered in the athlete population.

# Abbreviated Therapeutic Use Exemptions (ATUE)

- # The P.S. or P.M. which may be permitted by this ATUE are strictly limited to:
  - ✓ B<sub>2</sub> agonists
  - ✓ Glucocorticosteroids by non systemic routes

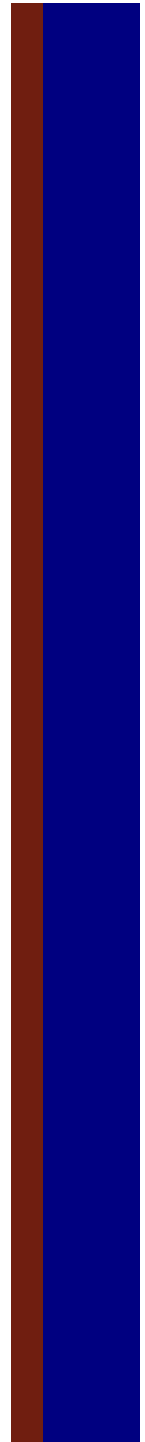
# Abbreviated Therapeutic Use Exemptions (ATUE)

- # The abbreviated process includes:
  - ✓ Approval is effective upon receipt of a complete notification by the Antidoping Organization.

# Asthma during the Olympic Games

Games	Team	%
1976 Montreal	Australia	9,7%
1980 Moscú	Australia	8,5%
1984 Los Angeles	Australia	7,2%
	EEUU	11,2%
1988 Seúl	Australia	8,2%
	EEUU	7,8%
1992 Barcelona	Spain	4,4%

9 %



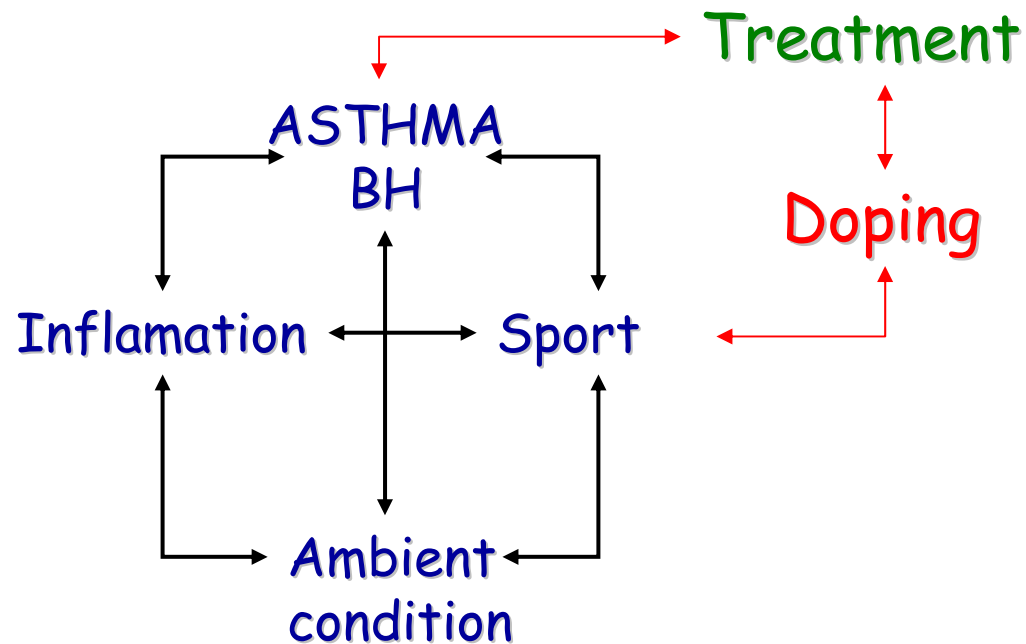
# Induced sputum characteristics of elite swimmers

	Swimmers	Control	<i>P</i>
• Total cells	6.6	4.6	
• Eosinofiles	<b>2.7</b>	0.2	0.005
• Neutrofiles	<b>54.7</b>	29.9	0.005
• Linfocites	0.7	0.6	
• Epitelial cells	0.3	0.2	
• EPO	<b>28.1</b>	4.5	0.001
• HNL	12.443	7.110	0.05

*Helenius IJ y cols. Allergy; 1998;53:346-352*

# Ergogenic effect of the $\beta_2$ agonists

- Protein desestructuration
- Muscular hipertrophy
- Fat storage
- ..... At high dosis, long duration treatment



# Minimal requirements for the medical file to be used for the ATUE in asthma

- # Complete medical history
- # Report of the clinical examination focusing on the respiratory system
- # Functional tests:
  - # Basal Espirometry (FEV<sub>1</sub>)
  - # Bronchial provocation test.
- # Complementary tests
- # Name, speciality, adress of the examining physician.