

2014

# BioTechnology

*An Indian Journal*

FULL PAPER

BTAIJ, 10(9), 2014 [3178 - 3184]

## Research on the coexistence phenomenon of doping and Anti Doping in sports science and technology development

Weixing Li  
Yulin University, (CHINA)

### ABSTRACT

Aiming at the abuse of doping, this paper mainly does a literature research on the coexistence phenomenon of China's doping and anti doping in order to provide a reference for the future research. The conclusion of the paper is that the evolution of China's Anti Doping management system, experienced start, innovation, strengthens and improves the four different stages of development.

### KEYWORDS

Doping; Anti doping; Sports science and technology.



## INTRODUCTION

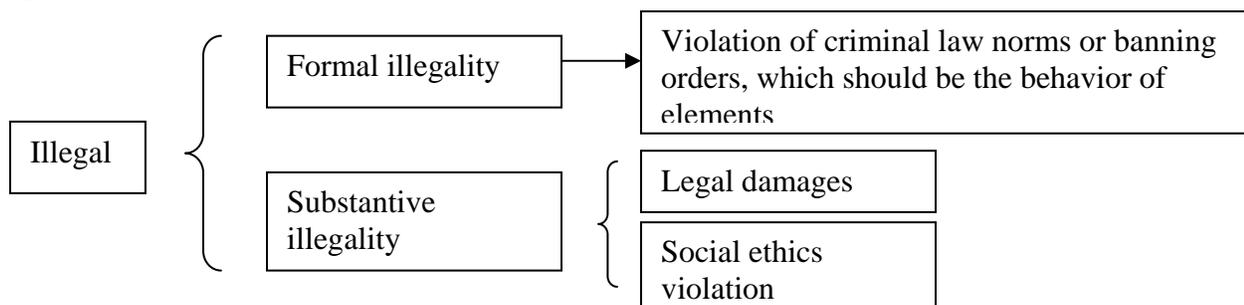
In today's world, doping is an evil shadow and Doping has been troubled the divine justice of competitive sports and the Olympic spirit. The twenty-first Century is the era of rapid development of scientific knowledge, the scientific and technological progress promote sports competition. Anti Doping Technology will improve and promote the rapid development of doping also. So we must clarify the doping and Anti Doping of the unity of opposites, provide some important ideological basis for further Anti Doping work strategy and lay the foundation for the anti doping. The evolutions of China's Anti Doping management system, experienced start, innovation, strengthen and improve the four different stages of development. With the development and changes of China's sports, it undertakes domestic and International Anti Doping struggle situation and China's sports administration and institution reform. In this way, we have built interactive, efficient, cooperative, and relatively clear management system, and Anti Doping work achieved significant results.

### THE COEXISTENCE PHENOMENON OF DOPING AND ANTI DOPING IN CHINA

#### **The construction of sports power, carry out the inevitable choice for the fight against doping**

Originated in the western athletic sports, doping entered China in twentieth Century, then at a high level, the professional team of China's track and field, swimming, weightlifting and other physical events appear in later spread to other projects and youth sports team. Increasing dope problems are manifold:

First, commercial, political and sports for the athlete's enormous interest driven; Second is the rapid development of medical technology and means of detection is lagging behind; again is the production, circulation and use of stimulant drugs lack of effective regulation, publicity and education the majority of athletes and relevant personnel is not deep enough, the law punishment is not effective, etc.. However, between countries and government and sports organizations has not really formed ability, Anti Doping management system need to constantly strengthen and perfect, is also one of the very important reason.



**Figure 1 : The illegal of doping**

Comrade Hu Jintao in the 2008 Beijing Olympic Games presented in recognition of the general assembly, China should strive to realize the change from a major sports country to a sports power. Realization of the goal, this one strategy need to solve many problems constraining the development of sports science, which of course includes doping. The athletes doping in sport, not only for the serious damage to their physical and mental health, more is trampling on fair competition sports moral, is the major obstacle restricting the healthy development of sports. Since the late 80's in twentieth Century, the Chinese government and sports always adhere to the "forbidden, strict inspection, serious processing" principle, adopt a series of measures to carry out the fight against doping and achieved remarkable results.

But China's Anti Doping struggle still faces a long-term, arduous and complex task. As the State Sports General Administration of sports development "pointed out" Twelfth Five Year Plan "in:" the Anti Doping work, doping violations have occurred, the Anti Doping laws and regulations can't meet the actual needs of Anti Doping. Anti Doping education targeted is not strong, the effect is not obvious,

athletic food and drug treatment security still exist, the doping test quality and the detection level needs to be further improved." Many of the above problems, depends on the construction of a more scientific and reasonable management system and improving the. Therefore, during the sports management system reform in China, we need to stand on the starting point of history, objective assessment of practical effect of Anti Doping management system in China, according to the development of national mission, people hope and sports within the requirements of the law, the adjustment and optimization of China's Anti Doping management system, outlines the main task, new times stimulants management to promote sports healthy and vigorous development, to ensure that China forward sports power to forest.

### **Follow the international trend, build high performance anti doping management system**

Doping is one of the challenges facing the international sports. From the 1968 Olympic Games for the first time to ban the use of doping and doping inspection date, use and reverse use, check and anti censorship struggle has never ceased. The International Olympic Committee has been around the World Anti Doping struggle played an irreplaceable pioneer and leading role, but with the doping problem is becoming more and more serious, due to the lack of governments and intergovernmental organizations to actively participate in and support, as an international sports organization limitations gradually. Therefore, a series of important and profound changes since the end of last century to the beginning of this century the International Anti Doping management system. Mainly displays in two aspects: one is the common management closely on doping a transition from independent management of sports organization for sports organizations and the government, the two is the establishment of the independent World Anti Doping Agency (World Anti-Doping Agency, abbreviated as WADA), independent, authoritative and professional management of excitement agent problem. At the same time, most countries especially Anti Doping management system mainly sports power has also made the corresponding adjustment.

In the early 90 century, China began to build and the formation of the Anti Doping management style with Chinese characteristics; provide a strong organizational guarantee for the Anti Doping work. The basic framework is the leadership, by the competent department of the government coordination, supervision, Chinese Olympic Anti Doping Committee Organization and implementation of national sports federations responsible. In 1998 May, reform of the State Council, the National Sports Commission for the restructuring of the State Sports General Administration, the provisions of the State Council, one of its duties is to "organize Anti Doping work" in 02004 the State Council promulgated the "Anti Doping regulations", defined the sports administrative department and other relevant departments as well as the sports society, the division of responsibilities in Anti Doping work in. In 2007 the State Sports General Administration of Anti Doping center was formally established, marking a further improve China's Anti Doping management system.

### **Deepen the administrative management system reform of public institution and reality**

Since 1980 time, our country has carried out 6 large-scale reform of the administrative system, and achieved remarkable progress in the transformation of government functions, optimize the structure of government, and update management mode and the improvement of government efficiency. At the same time, the reform of education, science and technology, culture, health, sports and other industries and institutions is steadily, accumulated useful experience. The reform of China's administrative and management system of institutions in more than 30 years, has made the following main results of 2: one is the idea of government management has been a major adjustment, the new government to establish limited liability, earnestly perform four basic functions of economic regulation, market supervision, social management and public services; the two is a major shift in the government function and public governance, established the macro-control system relies mainly on economic and legal means, the basic role of the market in the allocation of resources has become increasingly apparent, the government pay more attention to social management and public service functions; three is the government pay more attention to the maintenance of national security and crisis management; four is the way the government own construction and the management has significant progress in the rule of law, administration by law has become a basic requirement for the operation of the government.

## THE DOPING AND ANTI DOPING OF THE UNITY OF OPPOSITES

### The evolution and development in the contest

Seeing through the progress of evolution above the doping and Anti Doping, the human use of doping time earlier in the Anti Doping for thousands of years, with the development of new drug discovery of drugs, illicit drugs more and more, more widespread, more drugs and methods banned more complex (high technology). In addition (to some extent) Anti Doping are always behind the doping (when a certain doping is widely applied to illegal). Therefore, international sports between doping and Anti Doping is a protracted war, is extremely difficult and confusing struggle. Study on doping and Anti Doping ban two forces for more than 40 years of tough competition, the World Anti Doping Agency and individual sports organizations invest enormous human and material resources, still not completely restrains of doping overflowing momentum. Doping in sports spread and the rapid development of today's high-tech and biomedical engineering becomes more and more mature are inextricably linked, most drugs are used in the medical service for patients. At present, gene doping is born along with the development of gene therapy technology, although there is no effective method to detect, but has entered the ranks of contraband. Because of difficulties to make against the use of gene doping detection task face huge challenge.

### The doping and anti doping of the unity of opposites

The opposition and the unification of doping and Anti Doping on both sides of the conflict law determines the evolution and Prospect of stimulants, doping appearance does not in itself constitute a contradiction, but because the two big harm doping brings (equity and health) to cause the attention of people, gradually build up the consciousness and the strategy of anti doping. Historically, doping party is always one step ahead of the position; Anti Doping one party is in a passive position, but the passive and active.

Between the two sides of the struggle to promote both sides to a higher level of development and use level of the doping of increasing difficulty, blurring the boundaries. But the Anti Doping intention may gradually realized namely fair and health problems, needs of the sporting world wide people unremitting efforts. International sports doping and Anti Doping struggle will exist forever, one reason is the driving state, and group, nation and individual are influenced by political, economic interests or other interests. Two is due to competitive sports is "higher, faster and stronger" requirements and sports performance continues to improve, more and more people decided to limit the contradictions. With the rapid development of science and technology and means of detection of continuous improvement, the doping control. However, in the progress of science and technology at the same time, some new drugs and methods continue to emerge, become the biggest problem currently facing the anti doping. The world sports world between doping and Anti Doping is the unity of opposites, is a long-term, complex and arduous task.

## THE EXISTING PROBLEMS IN DOMESTIC SPORTS ENVIRONMENT

There existed several problems in domestic sports environment, following are some:

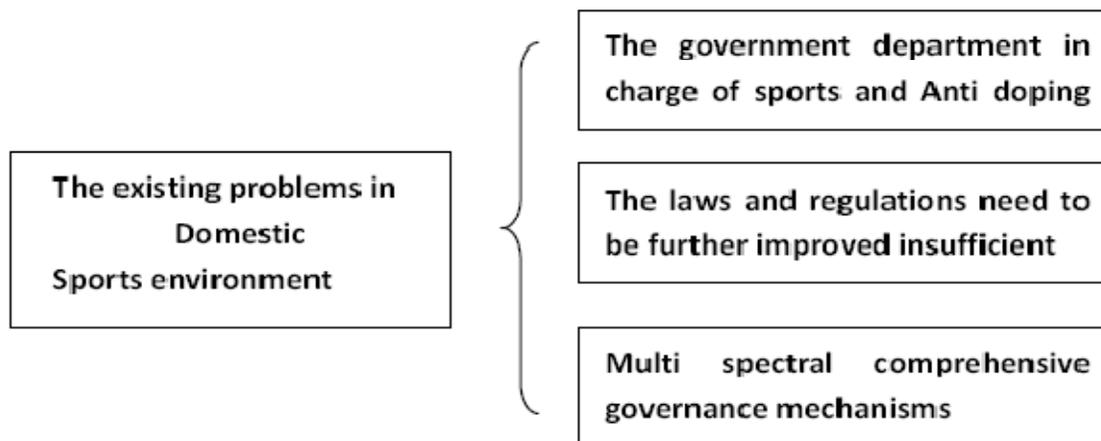


Figure 2 : The existing problems in domestic sports environment

### **The government department in charge of sports and Anti doping center functions to be further separation,**

Independent Anti Doping center are still deficient in 1999 of the World Anti Doping Agency was founded in 2001 as the IOC President Jacques Rogge and as a symbol of the new round of International Anti Doping in the wave of reform, the emergence of the "independently" and "unified" management reform. The government increase investment Anti Doping funds, the establishment of national Anti Doping Agency independent, industry has become the future development trend of International Anti Doping struggle.

China Anti Doping center as a national Anti Doping Agency, is independent Anti Doping Agency meet the international standards established, on the basis of the establishment, it can detect and results of autonomous Anti Doping inspection, management, carry out independent organization Anti Doping in scientific research and education. But China's Anti Doping center as the State Sports General Administration subordinate units, according to the "norms of the State Sports Centre Project Management Interim Provisions" of sports management center functions are defined: "bear the movement project management functions of the country.

### **The laws and regulations need to be further improved, cohesion and national laws is obviously insufficient**

From the National Sports Commission to develop the "three strict policy", "sports law", the stage of the promulgation of laws and regulations to the State Council promulgated the "Anti Doping regulations", indicates that China's Anti Doping work in the aspect of laws and regulations continue to improve, and gradually established a relatively standardized law system. However, the Anti Doping management achievements and the national other areas of the process of rule of law, establish the Anti Doping the enforcement of laws and regulations there are still some problems, can not completely meet the International Anti Doping Agency and China's Anti Doping work status request. Specific include the following aspects: one is the existing Anti Doping regulations, rules and the relevant laws, regulations, rules and regulations to join. Such as" Anti Doping regulations "to the organization, coercion, deception, abetting athletes.

Doping investigation of criminal responsibility in accordance with the existing provisions of the "criminal law" the difficult convergence, does not have the maneuverability, can't effectively combat organized, collective use of stimulants and other serious violations of the law." I08 has in fact since the "Anti Doping regulations" promulgated, the above events have occurred, but because of the harm caused by the lag of doping, which adopts the "criminal law" on the behavior of people, so that the related clauses of "Anti Doping regulations" in the criminal responsibility of the nominal.

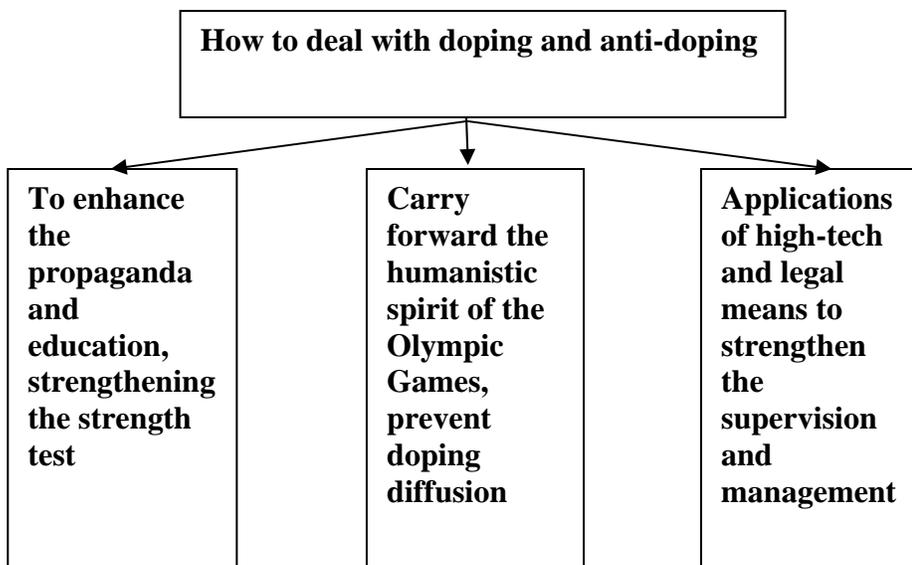
### **Multi spectral comprehensive governance mechanisms need to be further strengthened, coordination management mechanism has not yet completed**

In 2007 November, China's Anti Doping work by the General Administration of sport of unified leadership, the Chinese Olympic Committee, the Anti Doping Commission is responsible for, the Committee link it in the State General Administration of sports science and education division of comprehensive, but the director of the Anti Doping Commission Office by the State General Administration of sports science and education secretary concurrently. In addition, under the National Research Institute of sports medicine, doping and doping test center. Cross the collaborative management, responsible, organizational overlapping, decentralization, personnel and funds belonging to different units of the state, is not conducive to effectively carry out the work.

After the 2007 November the establishment of the Anti Doping center, Anti Doping management formally up to the national level, the 2008 Beijing Olympic Games, the doping test results over the years by the State General Administration of sports science and education division management, propaganda and education function officially transferred to the Anti Doping center. Although the Anti Doping center has become the representative of state authority, Anti Doping management however, Anti Doping struggle facing the situation is extremely complex, need for cooperation, comprehensive treatment to

achieve the anticipated effect. "In 2007, in the State Council under the unified coordination established led by the State General Administration of sports is composed of 11 departments of the doping problems comprehensively coordinate.

**HOW TO DEAL WITH DOPING AND ANTI-DOPING**



**Figure 3 : How to deal with doping and anti-doping**

**To enhance the propaganda and education, strengthening the strength test**

For more than 40 years of anti doping test, check and punish the behavior to reflect, from ethics, philosophy, law, politics, economy, science aspects, observation angle, Anti Doping also faces many contradictions, such as interest and price, desire and reality, morality and the Olympic spirit and science and morality, morality and law, medicine and detection technology, detection of scale and cost etc.. Therefore it is necessary to strengthen publicity and education work, understand the doping, strengthen scientific detection technology, the publicity and education and science and technology and strict punishment, out of the simple model could, check, penalty, fundamentally eliminate doping, the doping problems are reasonable and legitimate solution.

**Carry forward the humanistic spirit of the Olympic Games, prevent doping diffusion**

The power of the modern Olympic movement from the scientific development of prosperity, but behind the prosperity there are some crisis, commercial and interests over the Olympic humanistic spirit loss, drive of economic interest to science and technology as the doping creates conditions to cause the drug abuse phenomenon. In twenty-first Century the International Olympic Committee should re-examine the doping problems, strengthen the publicity and education by using network, news media to strengthen education and supervision of the coaches and athletes, increasing social pressure of public opinion, to ensure that the Olympic spirit of humanity, to prevent diffusion doping.

**Applications of high-tech and legal means to strengthen the supervision and management**

Rational thinking on the doping problems, no doubt on the Anti Doping strategy will play an important role; out of the simple model could, check, punishment, strengthen the doping pharmacological effects, side effects and harm research, including research on how to eliminate the adverse effects of stimulant. Supervise and scientific management of drugs, the fight against doping into the scientific and legal orbit, to use doping certain shocks, the doping is nipped in the bud.

## CONCLUSION

The evolution of China's Anti Doping management system, experienced start, innovation, strengthens and improve the four different stages of development. With the development and changes of China's sports undertaking domestic and International Anti Doping struggle situation and China's sports administration and institution reform, has initially established the interactive, efficient, cooperative, accrual relatively clear management system, Anti Doping work achieved significant results, according to the analysis of the theory of institutional change, this paper thinks that China's Anti Doping management system.

Specific performance: firstly, the development of sports in our country is the inner motivation of system changes, to the fight against doping is the external driving force of institutional change, prompted China's Anti Doping management system to continuously strengthen and perfect; secondly, the government is the main body of institutional change, evolution has a top-down mandatory; thirdly, the process of institution change is incremental rather than radical, mutation; fourthly compared with the development of China's sports management system reform and International Anti Doping management system, development and evolution of China's Anti Doping management system lags behind relatively.

## ACKNOWLEDGEMENT

The paper is supported by the project of optimizing on on spatial distribution of Yulin city public facilities (No. SF13-21).

## REFERENCE

- [1] Michael S.Straubel; Doping Due Process: A Critique of the Doping Control Process in International Sport. 106 Dick. L. Rev, 58-1 (2002).
- [2] Samuel R.Bakers; Hot Topics in Sports and Athletics [M] Nova Science Publishers, 87 (2007).
- [3] Jan Todd, Terry Todd; Significant Events in the History of Drug Testing and the Olympic Movement: 1960-1999[C]. In Doping in Elite Sport: The Politics of Drugs in the Olympic Movement[C]. Wayne Wilson& Edward Derseeds, 65-67 (2001).
- [4] Travis T.Tygart; Winners Never Dope and Finally, Dopers Never Win: USADA Takes Over Drug Testing of United States Olympic Athletes. DePaul J.Sports L.&Contemp. Probs, 134-166 (2003).
- [5] Uassil Girginov; Creating a Corporate Anti-doping Culture: The Role of Bulgarian Sports Governing Bodies. Sport in Society, 9(2), 252-268 (2006).
- [6] Stuart Miller; Good governance and anti-doping policy: an international federation view.[J]. International Journal of Sport Policy and Politics, 3(2), 279-288 (2011).