

# TDM Developing in China

Xiang-Lin Zhang<sup>1</sup>, Rongsheng Zhao<sup>2</sup>, Xiaoxing Wang<sup>1</sup>, Wangjun Qin<sup>1</sup>, Wenqian Chen<sup>1</sup>

1. Department of Pharmacy, China-Japan Friendship Hospital

2. Department of Pharmacy, Peking University Third Hospital

China

## Scope of the lecture:

We will introduce the development of TDM, TDM committee, and the status survey of TDM work in China.

## Learning objectives:

1. The development of TDM in China
2. History and current situation of The Chinese society of TDM
3. The concept of multi-disciplinary integration model in the development of TDM in China

## Extended abstract:

### Part 1: The development of TDM in China

The therapeutic drug monitoring (TDM) is one of the main areas of Chinese pharmacists in the clinical pharmacy practice and research, which has been of great help to the rational drug use. The utilization of TDM in immunosuppressive drugs provided the best example. It has greatly promoted the development of organ transplantation, with the improvement of the survival rates and life qualities of the recipients.

The routine TDM work has been carried out in China as early as the 1970s. In the mid-1980s, with the development of immunosuppressive therapy after organ transplantation, the monitoring of drug treatment was advancing rapidly. And later the Ministry of Health made it one of the essential items of comprehensive upper first-class hospital.

### Part 2: History and current situation of The Chinese society of TDM

Division of Therapeutic Drug Monitoring, which is one of the professional committees of Chinese Pharmacological Society, was established in July, 2011. Pharmacists and physicians are the main components of its members, in addition to some scholars and laboratory physicians. Chinese Pharmacological Society is a non-profit national academic organization that approved by the National Ministry of Civil Affairs and China Association for Science Technology.

Now, the Division of Therapeutic Drug Monitoring of Chinese Pharmacological Society consists of 181 members which are the directors of pharmacy department and pharmacology experts from more than 170 tertiary hospitals in China. The committee are making great efforts on the development of the individualized treatment, with the help of TDM in the clinical practice and the scientific researches. In addition, the training of pharmacists and the

international communications also help the development of TDM in China. So far, we have performed 6 national annual academic conferences from 2011 to 2016, and organized the Chinese pharmacists attending the IATDMCT conferences in 2016 and 2017.

On October 2017, the 7th national annual academic conference will be held in Chongqing, China, during which the Chinese pharmacists will discuss how to further promote the utilization of TDM to improve the clinical practice, under the reform of the health system in China.

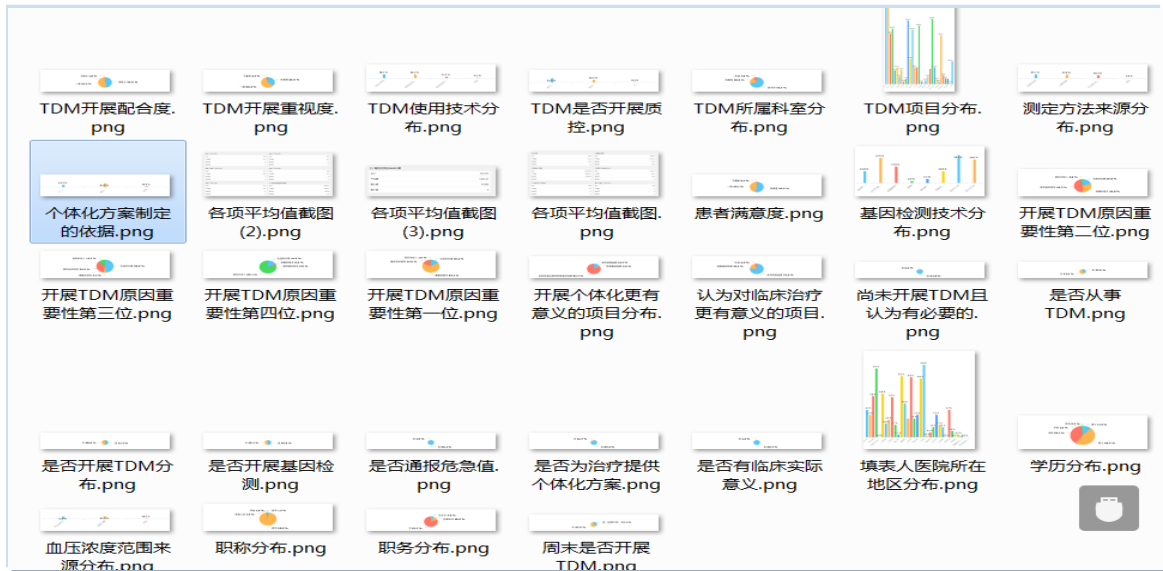


Fig. 2 Survey of TDM in China

### Part 3: The concept of multi-disciplinary integration model in the development of TDM in China

At present, TDM in China has formed a pharmacy, clinical, test co-participation, multi-disciplinary integration model for organ transplantation, anti-infection, epilepsy, asthma, cardiovascular disease and other diseases therapy provide a scientific means of individual treatment.



Fig. 3 The Chinese Society of TDM attach importance to academic communication with international experts



Fig. 4 National annual academic conference held by The Chinese Society of TDM