



Use of Real-world Evidence for Drug Assessment in China

Jun Wang

Center for Drug Evaluation, National Medical Products Administration

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RWE guidances published by NMPA

- **Guidance on Using **Real-world Evidence** to Support Drug Development and Decision-making (For Trial Implementation), Jan 7, 2020**
- **Guidance on **Real-world Data** Used to Generate Real-world Evidence (For Trial Implementation), Apr 15, 2021**
- **Guideline on Real-world Study to Support **Pediatric Drug** Development And Review (For Trial Implementation), Aug 31, 2020**

Fluticasone Propionate Inhalation Aerosol

- Sponsor have applied **for expanding the scope of applicable population** in China from the approved children ≥ 4 years old to the children ≥ 1 years old by using the clinical research evidence of overseas which are from the children ≥ 1 years old.
- As a post approval requirement, the sponsor completed **a post marketing observational study** for the purpose of monitoring the drug **safety** of children aged 1-4.

Case Study 2

- A cardiovascular drug that has been marketed overseas and is **in urgent clinical need** in China. It was approved for marketing with local clinical trial waiver.
- In order to further clarify the effectiveness in Chinese patients, it is planned to carry out prospective observational real-world study after marketing.
- To evaluate the preventive effects of the drug combined with standard treatment vs. standard treatment alone on major cardiovascular events in Chinese patients with cardiovascular disease.

- **Pre-communication of study protocol**
 - ❑ Real-world data
 - Relevance: The inclusion of important variables and information related to clinical outcomes, sufficient sample size and follow-up duration , etc.
 - Reliability: data completeness, accuracy, transparency and quality assurance
 - ❑ Rationality and rigor of study design and statistical methods
- **Transparency in implementation: avoid selection bias**
- **Whether study results are reproducible, robust and replicable**
- **Risk-benefit evaluation**

➤ **Fit-for-purpose real-world data**

- The purpose of data collection and curation was not to support the research
- Accuracy and reliability
- Patient privacy protection
- Data submission meets regulatory reproducibility requirements

➤ **Lack of Common data model**

➤ **Methodology and analytical technology**