## ISPOR Real-World Evidence Summit 2025

28-30 September



## Clinical safety analysis of aminophylline injection: a retrospective cohort study based on electronic health records in China

Yibing Chen, Mater'1; Xingying Xu, Ph.D.1; Huimin Zou, Ph.D.1; Wenge Chen, Ph.D.2; Yunfeng Lai, Ph.D.1

<sup>1</sup>Guangzhou University of Chinese Medicine, Guangzhou, China.

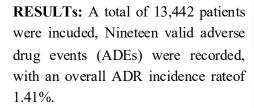
<sup>2</sup>Guangdong University of Technology, Guangzhou, China.

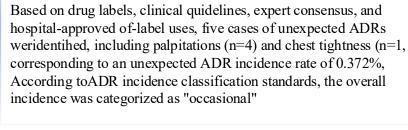


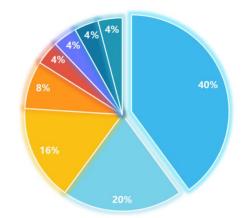
**OBIECTIVEs:** Aminophyline is a widely used bronchodilator for acute bronchial asthma exacerbations, chronic obstructive pulmonary diseaseand cardiac asthma. However, its administration and dosage require strict control to minimize adverse reactions. This study aimed to evaluate the clinical safety of aminophyline injection in realworld practice and provide empirical support for promoting rational medication use.



METHODs: Data were collected from the China Hospital pharmacovigilance System (CHps) across three national sentinel hospitals betweenjanuary 2020 and December 2022. All patients who received aminophyline injections during the study period were included. Analysis focused on the incidence of adverse drug reactions (ADRs) and unexpected ADRs. tatistical analysis was performed using Microsoft Excel 2023 and spss27.0.







## ACCUMULATED SYSTEM(A TOTAL OF 25 CASES)

- Neurological disorders
- Cardiovascular diseases
- Gastrointestinal diseases
- Respiratory diseases
- Diseases of the skin and skin appendages
- Mental illness
- Musculoskeletal disorders
- Systemic diseases of the whole body



CONCLUSIONs: Aminophylline injection demonstrated a generally acceptable safety profle for clinical use, though vigilance regardingunexpected adverse reactions remains necessary, Further prospective pragmatic controlled trials are warranted to better characterize andenhance the safety profile of aminophylline injection.

Acknowledgements: This research was supported by funding from the Guangdong Pharmaceutical Association The First Batch of Clinical Comprehensive Evaluation Projects of Drugs in Guangdong Province (2022-1115-31).