SHOULD VOLUME-BASED PROCUREMENT PRICE OF COMPARATOR BE REFERENCED FOR INNOVATIVE DRUGS IN NATIONAL REIMBURSEMENT DRUG LIST NEGOTIATION IN CHINA?

Background and Objectives

- **Innovative drugs** bring **outstanding clinical benefits** to patients by improving treatment adherence in rare diseases, significantly reducing related medical expenses, and thereby reducing the economic burden of patients and healthcare system
- In current China's National Reimbursement Drug List (NRDL) negotiation, when submitting cost-effectiveness analysis evidence, Volume-based Procurement (VBP) price is referenced for comparator if comparator is off-patent drug with generics.
- Lower price may become the main concern for pharmaceutical manufacturers to invest R&D and launch in China, which will affect patient access to innovative drugs
- **Objective**: This study aims to explore whether it is reasonable to **reference VBP** price of comparator in innovative drugs NRDL negotiation through two simulated case studies on hypothetical oncology innovative drug X and chronic disease innovative drug Y

Methods

Oncology Case

- From the health care system perspective, a partitioned survival model was constructed for innovative drug X in treatment of metastatic castration-resistant prostate cancer (mCRPC).
- The model adopted life-time horizon. Quality-adjusted life year (QALY) and costs were discounted at an annual rate of 5%.
- The efficacy and safety data of The hypothetical drug X is combined from two innovative mCRPC drugs. Cost and utility inputs were retrieved from published literature. Abiraterone was selected as comparator as itis widely used among mCRPC patients in China.
- We compared the negotiation prices of drug X at given willingness-to-pay threshold using branded price (before VBP) and VBP price of Abiraterone.
- The trend of market growth and overall sales forecast for drug X under different willingness-to-pay thresholds were estimated to evaluate its long-term return.

Chronic Disease Case

- From the **healthcare system** perspective, IQVIA **CORE diabetes model** was used to simulate for innovative drug Y in treatment of **Type 2 diabetes (T2D).**
- The model adopted life-time horizon. Quality-adjusted life year (QALY) and costs were discounted at an annual rate of 5%.
- The efficacy and safety data of The hypothetical drug Y is combined from **multiple** innovative GLP-1 agonists in global pipelines. Cost and utility inputs were retrieved from **published literature**. Basal Insulin Degludec was selected as comparator as it is **widely used** among T2D patients in China.
- The trend of market growth and overall sales forecast for drug Y under different willingness-to-pay thresholds were estimated to evaluate its long-term return.

CONTACT

Market growth 400%

100%

0%

-100%

Year

Discussion & Policy Advocacy

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Jing Wu¹, Jun Liu², Jian Ming³, Shuli Qu³, Tian Wei³, Lanqing Zhu², Jing Chen² 1. School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, China; 2. IQVIA, Beijing, China; 3. IQVIA, Shanghai, China



o ensure long-term clinical benefits and local & foreign innovative drug access to Chinese patients, government support plays a crucial role in optimizing the decision-making process. here are several issues to considered to ensure a healthy market access environment in China:

- When selecting reference drug for NRDL negotiation, it is recommended to select drugs with similar level of innovation, to pair with the clinical value of the innovative drugs. Consider to distinguish the pricing mechanism for innovative drugs from generics. Originator's price before VBP is more appropriate to be referenced for innovative drugs' NRDL negotiation, to pair with its greater investment and higher innovation value.
- Conducting value-based pricing for innovative drugs and granting reasonable return to innovative drugs are crucial for expanding the innovative drug options for Chinese patients.

DISCLOSURE

No potential conflict of interest was reported by the authors.



Results: Chronic Disease Case						
. IQVIA CORE diabetes model results						
tor	Willingness-to- pay threshold		Reference Price	Annual costs of comparator	Innovative drugs X's CEA- based annual cost	
ulin ¥80,976/QALY	0.183	Branded price	¥ 8,552	¥ 10,309		
		VBP price	¥ 3,041	¥ 5,017		

