Care-Seeking and Antibiotic Use Over Time in Children Under 5 in Vietnam



Tianyi Wang, 2019, Woodrow Wilson School **Oxford Clinical Research Unit, Vietnam Funded by CHW under the Health Grand Challenges**



Purpose

To investigate **changes in** time in antibiotic use and care-seeking for acute respiratory infection (ARI) in Vietnam

Time period: 2006 - 2014

Background

- **What is Acute Respiratory** Illness (ARI)?
- Respiratory infection, with "fast breathing" and "lower chest wall withdrawing"
- **Vietnam Healthcare System?**
- Free health insurance for children under 5
- Government Hospitals span central provincial, district and commune levels
- Private hospitals/pharmacies not part of central level

Methods

- ** **UNICEF Survey Data** (2006, 2011, 2014)
- Baseline Logistic Regression Models using

Social Determinant

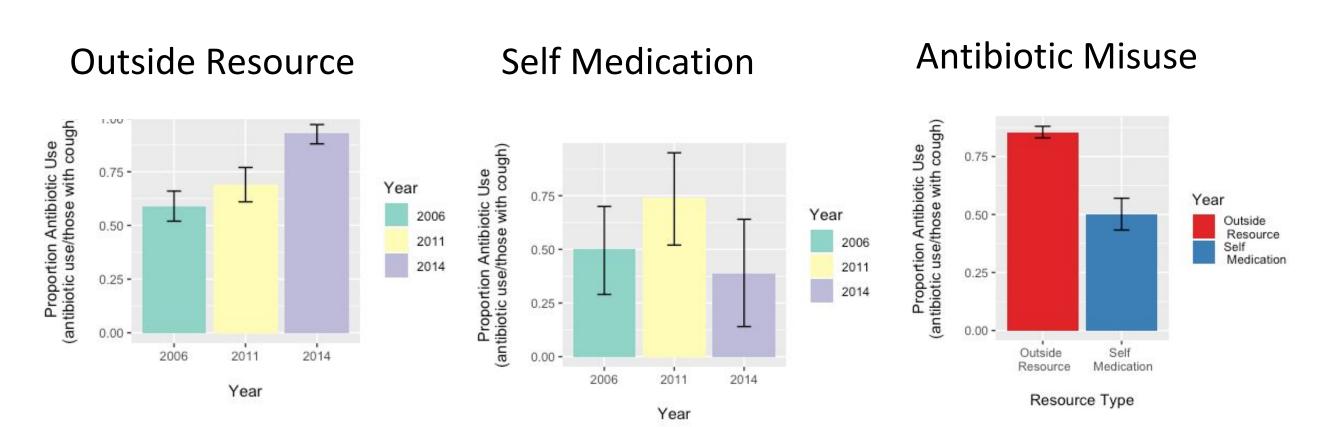
Care-Seeking

Antibiotic Use

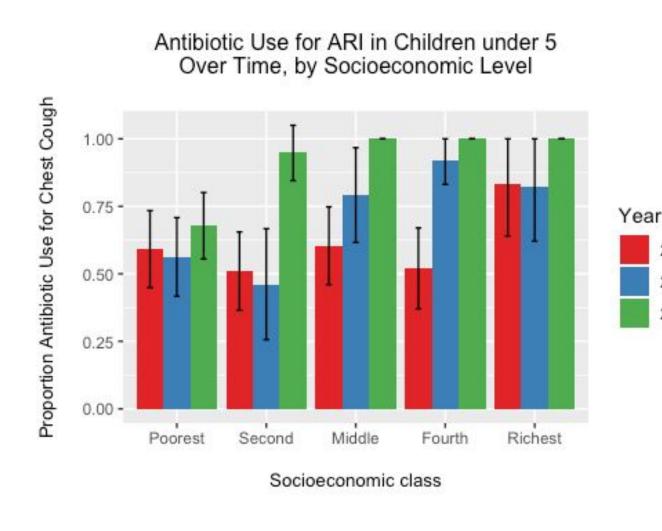
Misuse of **Antibiotics**

Results

Antibiotic use over time

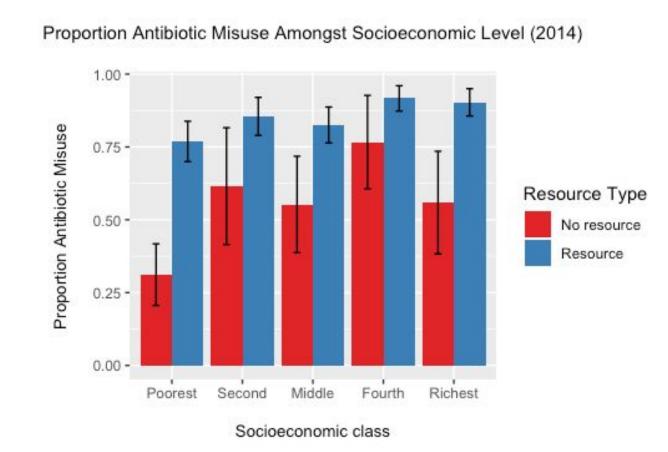


Socioeconomic Level

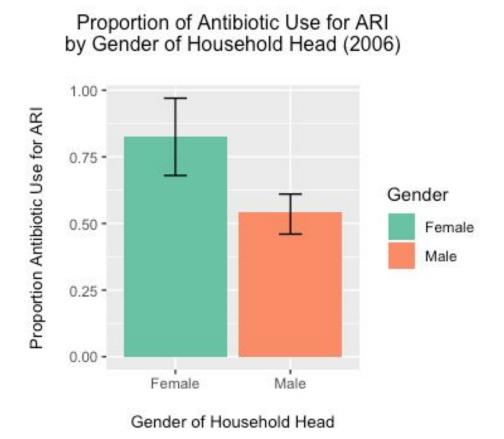


3.32 Greater odds of correctly using antibiotics for very *increase in* socioeconomic level

2.0 Greater odds of misusing antibiotics every *increase in* socioeconomic level



Gender of Household Head



Female Household Head (2011)

3.2 Greater odds of using antibiotics for child 2.7 Greater odds of using **government hospital** for child

Gender of Child

Male Child in 2011



- **3.16** Greater odds of **obtaining antibiotics for ARI**
- **2.6** Greater odds of seeking help from **government hospital**

Conclusions

- Social Disparities in antibiotic use and misuse
- Inadequacies in care resources Balance still needed: adequate resources vs. drug overuse