



Global Antibiotic Resistance Partnership



Global
**Antibiotic
Resistance**
Partnership

CDDEP

THE CENTER FOR
Disease Dynamics,
Economics & Policy
WASHINGTON DC • NEW DELHI

RESOURCES
FOR THE FUTURE



Day 1 reflections

GARP-Vietnam Inaugural Meeting

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Resources for the Future



Much is Known

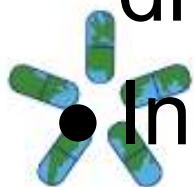
- Resistance to multiple antibiotics is quite high and rising in important pathogens—gram negative and gram positive
- Substantial non-beneficial use, from both physician and self-prescribing
- (At the same time, access to antibiotics is poor in remote areas)
- Considerable use in agricultural animals—land and aquatic

Much is known

- Reasons for irrational prescribing by providers: expectations, time constraints, lack of up-to-date knowledge, economic benefit
- But—practices can be changed by targeted interventions, e.g., educational approach to pharmacists
- Clear capacity to conduct high-quality surveillance exists (ASTS)

Important Information Gaps

- Burden of disease has not been quantified: Economic costs, full consequences of antibiotic resistance: need this to appeal to policymakers and others—benefits of interventions
- National level consumption: human and veterinary
- Breakdown of consumption by source: hospital, pharmacy (+/- prescription), other drug sellers



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- Incentives throughout system

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Opportunities

STEP 1:

- Organize/analyze existing information
- Identify key information gaps and strategies for filling

AND

**Begin developing ideas for Step 2:
Promising approaches**

Opportunities

STEP 2:

- Select major goals/targets based on analysis of use patterns, existing incentives (who benefits, how much), and how big a change can be expected
- Variety of possible interventions to improve prescribing and purchase:
 - information/education
 - changing incentives
- Surveillance: Antibiotic resistance and antibiotic use
 - Need to define specific purposes and goals
 - Implications for microbiology
- Veterinary: Strong economic incentives to adhere to rules, but what interventions?



Reasons for Optimism



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