



Global
**Antibiotic
Resistance**
Partnership

CDDEP THE CENTER FOR
Disease Dynamics,
Economics & Policy
WASHINGTON DC • KEMRI/WHU

Global Antibiotic Resistance Partnership in Vietnam (GARP-Vietnam)

Nguyen Vu Trung M.D, Ph.D

Microbiology Dept., HN Medicine University
Head of Microbiology Dept., NIITD



Antibiotic

Antibiotic is a substance or compound that kills or inhibits the growth of bacteria in low concentration specifically by disordering biological reactions at the molecular level.

Roles:

- + Individual patient**
- + Community**





Antibiotic Resistance

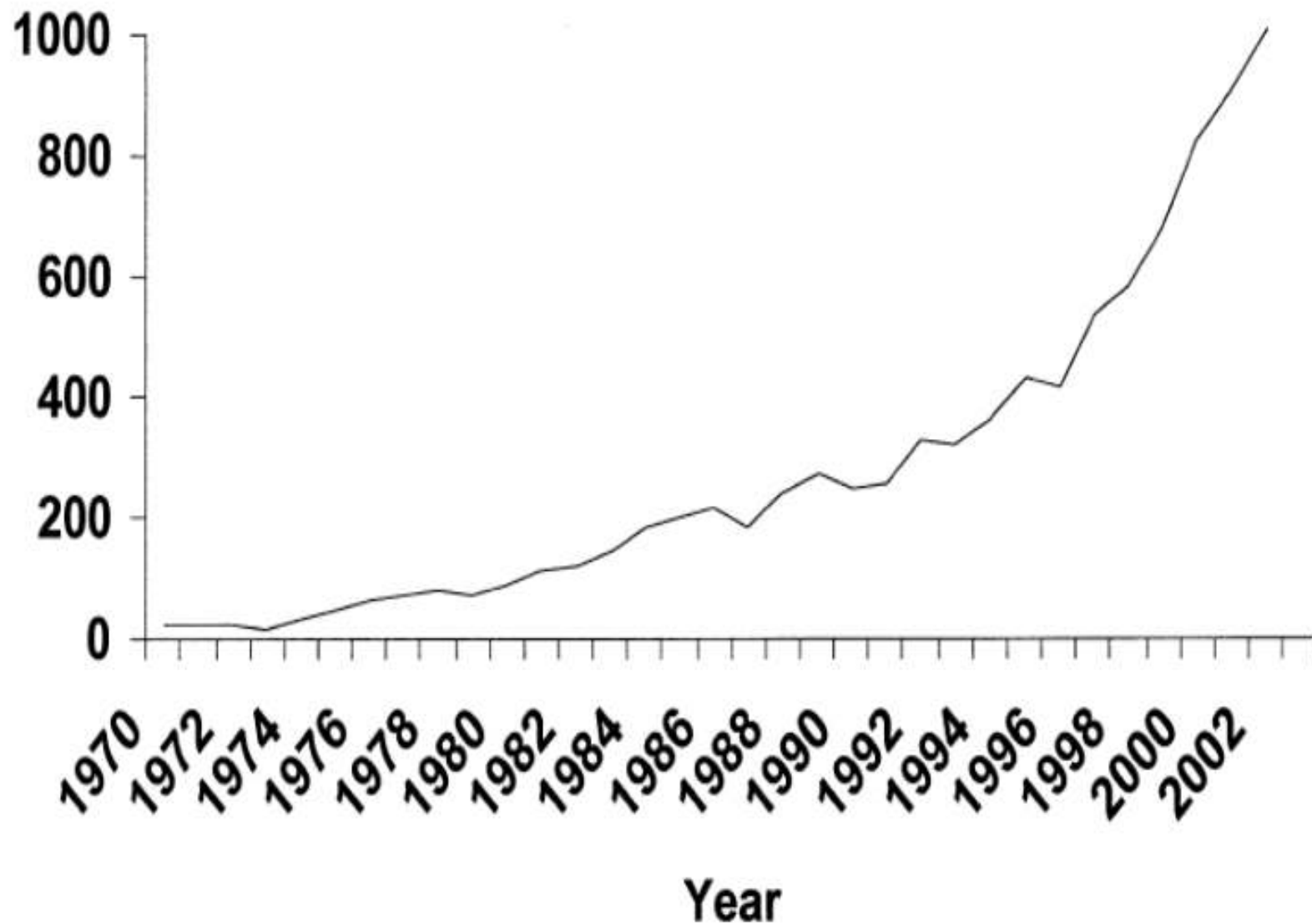


Figure 1. Annual number of articles retrieved in English-language searches of the PubMed database with the search term "antimicrobial resistance," 1970 to 2002. *Seminars in Pediatric Infectious Diseases, Vol 15, No 2 (April), 2004: pp 99-104*



Current situation of antibiotic utilisation

Drug utilisation and self-medication in rural communities in Vietnam

PERGAMON

Social Science & Medicine 54 (2002) 1875–1886

Overprescribing of antibiotics to children in rural Vietnam

Scandinavian Journal of Infectious Diseases, 2005; 37: 442–448

“Doi moi” and private pharmacies: a case study on dispensing and financial issues in Hanoi, Vietnam

In all 1833 encounters were studied during the 2 weeks, out of which 286 were children. Less than 1% of customers came with prescriptions and 94.9% decided by themselves which drugs to buy. Antibiotics repre-

Eur J Clin Pharmacol (1999) 55: 325–332



The End of Antibiotics

SCIENCE THOUGHT IT HAD VANQUISHED INFECTIOUS DISEASES. BUT NOW THE BUGS ARE FIGHTING BACK.

BY SHARON BEGLEY

bided their time until their more vulnerable cousins had been killed. Then they multiplied by the billions. So one morning last year, Gilbert gathered her courage and walked softly

counts for one in seven new cases; 5 percent of those patients are dying. Several resistant strains of pneumococcus, the microbe responsible for infected surgical wounds and

By Sharon Begley | NEWSWEEK
From the magazine issue dated Mar 28, 1994



WHO/UNEP/FAO
JGTC/SGM/SA
GENERAL/2016.02

WHO Global Strategy for Containment of Antimicrobial Resistance

Global Strategy for Containment of Antimicrobial Resistance



Surveillance of antibiotic resistance in Vietnam

+ Surveillance in Hospitals

- Establish steering committee of antibiotic utilisation
- Develop catalogue of antibiotic using in hospitals and catalogue of antibiotic should be limited to use in hospitals.
- Carry out frequently surveillance programme the sensitivity of bacteria to antibiotic in whole hospital.
- Enhance training program about antibiotic utilisation knowledge for medical staff.
- Enhance the role of clinical pharmacist and drug communication.

+ Investigation activity of researchers

+ ASTS: 1989 – 2005

+ MoH Antibiotic Resistant Surveillance project



Global Antibiotic Resistance Partnership

What is GARP:

The Global Antibiotic Resistance Partnership (GARP) is a new initiative of Resources for the Future (RFF), a nonprofit organization that conducts independent research. The program aims to address the challenge of antibiotic resistance by developing actionable policy proposals in five low- and middle-income countries: China, India, Kenya, South Africa and Vietnam. The project is funded by a grant from the Bill & Melinda Gates Foundation.



General objective of GARP-Vietnam

To develop the evidence base for action on antibiotic resistance in Vietnam and identify policies that will have greatest impact in slowing the development and spread of resistance. Ultimately, GARP-Vietnam will result in a better understanding of how antibiotics are used in Vietnam and how use can be improved.



GARP-Vietnam Organization

Operating:

Nguyen Van Kinh Ph.D, Director NIITD

Peter Horby, Director OUCRU-HN

Steering committee:

Nguyen Van Kinh Ph.D NIITD

Ly Ngoc Kinh Ph.D Dept. of Therapy, MoH

Hoang Thanh Mai Msc Drug Administration

Nguyen Vu Trung Ph.D NIITD-HMU

Pham Van Ca Assistant Prof. NIITD

Doan Mai Phuong Ph.D Bạch Mai Hospital

Tran Tinh Hien Assistant Prof. Hospital for Tropical Diseases

Nguyen Quoc An Ph.D Dept. of Animal Health

Do Thi Thuy Nga Msc OUCRU-HN

Heiman Whertheim Ph.D OUCRU-HN

Peter Horby Ph.D OUCRU-HN



Specific activities of GARP-Vietnam

- **Constitute a National GARP-Vietnam Working Group**
- **Recruit a Local Project Coordinator**
- **Develop Current Situation Analysis for Vietnam**
- **Commission Scientific and Policy Research**
- **Hold Scientific Meetings**
- **Develop a Final Report With Policy Proposals**
- **Disseminate Scientific Findings and Policy Recommendations**



Thank you

