The Race Against Drug Resistance

A Report of the Center for Global Development’s Drug Resistance Working Group

Rachel Nugent
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When Medicines Fail
A GLOBAL PUSH TO FIGHT DRUG RESISTANCE
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THE PROBLEM
THE CONSEQUENCES

Lethal
Expensive
Accelerating
A Public Health Time Bomb

- **S. Pneumonia**: up to 50% of cases are resistant to penicillin
- **Shigella**: in Africa, widespread resistance to first-line antibiotics; in Latin America, 80% of tested isolates are multi-drug resistant
- **Malaria**: one remaining effective drug
- **TB**: 460,000 resistant cases a year
Drug Resistance Costs Dollars

1st Line

HIV/AIDS

2nd Line

TB

When Medicines Fail
A Global Push to Fight Drug Resistance

Adapted from Norrby SR et al. Lancet Inf Dis. 2005; 5:115-119
WHAT IS NEEDED
The Drug Resistance Working Group

- Health care providers
- Academic researchers
- Pharmaceutical industry
- Government
- Donors
- Global health institutions
- Advocacy groups
Recommendation #1

**Improve surveillance** by collecting and sharing resistance information across networks of laboratories

Photo © Back to Earth Films
Recommendation #2
Secure the supply chain, from pharmaceutical manufacturers to patients
Recommendation #3

Strengthen national drug regulatory authorities through regional networks
Recommendation #4

Develop **web-based R&D marketplace** to catalyze the development of resistance-fighting technologies
“… we are potentially headed for a post-antibiotic world in which we will have few or no clinical interventions for some infections.”

Dr. Thomas Frieden, Director, CDC

Hearing of House Energy and Commerce Health Subcommittee

April 28, 2010
Visit www.WhenMedicinesFail.org to learn more and sign up for the monthly e-newsletter.
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