The Challenge of Getting Vaccines Delivered and Used

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Discovery, Development and Delivery: The Promise and Challenge of Vaccine Innovations
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Should I re-invent the wheel?
Estimated Deaths: Ebola Virus in Democratic Republic of Congo, 1995

= 350 People
Estimated Deaths: Ebola Virus vs. Measles in D.R. Congo, 1995

= 350 People
The “Twin Engines”
The Twin Engines
Sustainable Immunization Systems

- Practices
- Financing
- Training
- Monitoring & Surveillance
- Communications
- Supplies & Logistics
- Management
- Policies
Global Immunization 1980-2004, DTP3 coverage
global coverage at 78% in 2004

Source: WHO/UNICEF estimates, 2005
192 WHO Member States. Data as of September 2005
Date of slide: 12 September 2005
Countries with national DTP3 coverage in infants ≥80% for each of last three years (2000-2002)

Source: WHO & UNICEF estimates of National Immunization coverage
DPT3 coverage, under 1, by State 2005, Nigeria

National Average: 37.5%
Gap in actual coverage

Andhra Pr

Bihar

Delhi

Kerala

Madhya Pr

Tamil Nadu

Uttar Pradesh

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Prices of Newer Vaccines Increase Vaccine Costs Exponentially for Under-ones
Lesson Learned:

Improving health services in high-risk, urban areas requires strategies that address epidemiologic, institutional, and political concerns.
Immunization coverage is not enough!

Was potent vaccine administered safely and efficiently in a timely manner before exposure to disease?
Hop on board! There is always room for one more.
Gas powered and gas dependent

Keep a spare, full bottle of gas

WHO
An Arab Proverb

“Don’t count your children until they have had measles”
Slowly he would cruise the neighborhood, waiting for that occasional careless child who confused him with another vendor.
Quality of Immunization Services

Improving Injection Safety:

• 12 billion injections annually in developing countries

• Over 50% unsafe → HIV, Hepatitis B, Hepatitis C

• Immunization injections: 10% of total but EPI leading push for safe injection

Source: WHO
Examples of Auto-Disable Syringes
Technologies for Sharps Waste Management are Needed
Injection Safety

Lesson Learned:
Concerted advocacy is needed to raise awareness and promote ownership and action for an unpopular problem.
“We know in our hearts that we are in the world for keeps, yet we are still tackling 20-year problems with 5-year plans staffed by 2-year personnel working with 1-year appropriations. It’s simply not good enough.”

- Harlan Cleveland
  (President, World Academy of Art and Science)
EVERY CHILD SHOULD BE A VIP: Vaccinated, Immunized and Protected

THANK YOU