

Fighting Childhood Pneumonia in Uganda INTRODUCTION - AGENDA



Fighting Childhood Pneumonia in Uganda INTRODUCTION - CHARGE



Challenges of the Uganda Pneumonia Program

How can we improve it over the next five years?

Initial \$10 million and additional \$4 million per year for the next 5 years

How do we allocate these funds for the Ugandan Vaccination Program?

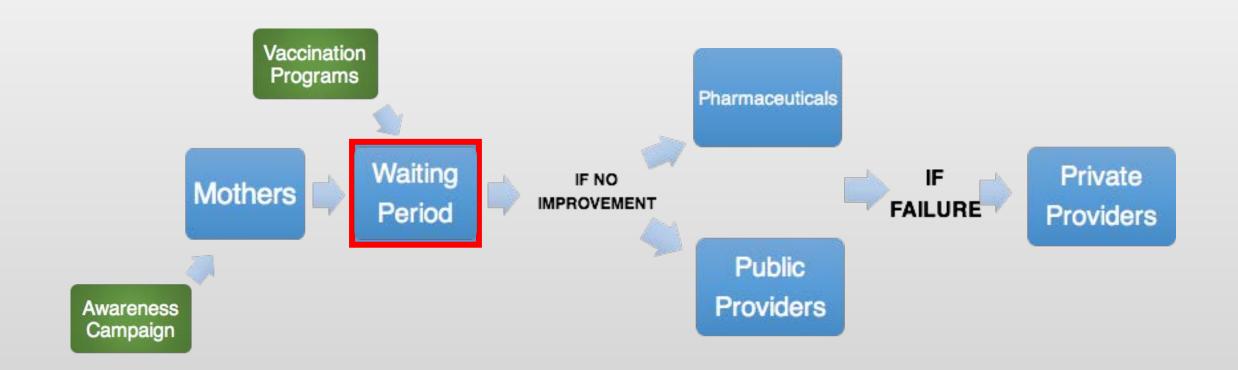
UNDERSUPPLY MISDIAGNOSIS LACK OF AWARENESS

FUNDING

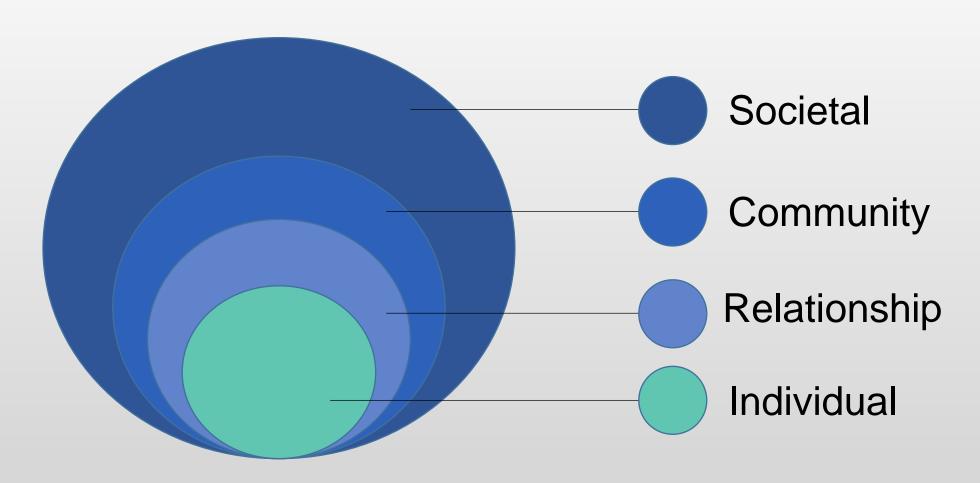
Fighting Childhood Pneumonia in Uganda ANALYSIS - ALTERNATIVES

Alternatives	Feasibility	Sustainability	Scalability
Village Teams	/	×	×
Mass Radio Campaign Programs	~	×	×
Sustainable Drug Sell Initiatives	×	/	×
Healthcare Professional Training			×

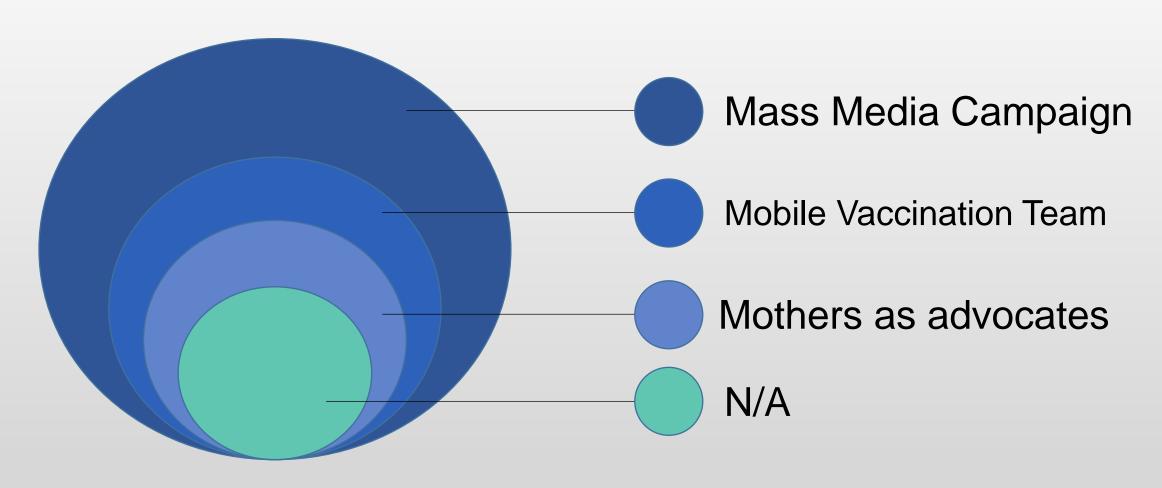
Fighting Childhood Pneumonia in Uganda ANALYSIS



Fighting Childhood Pneumonia in Uganda **SOLUTIONS**

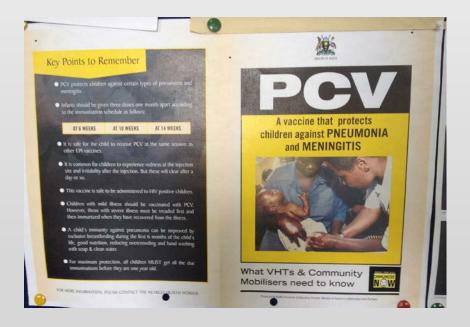


Fighting Childhood Pneumonia in Uganda **SOLUTIONS**



Fighting Childhood Pneumonia in Uganda SOLUTIONS – SOCIETAL

Societal: Promote social norms that promote vaccination with multi-media campaign





Fighting Childhood Pneumonia in Uganda SOLUTIONS – COMMUNAL

Community: One mobile vaccination team per three districts

- 38 teams
- 2-3 months rotations
- 5 professionals: 2 nurses, 2 nursing assistants, 1 educator

Teams exclusively vaccinate



Educators provide mini lectures to reinforce concepts presented in campaigns

Fighting Childhood Pneumonia in Uganda FINANCIALS



GDP per Capita is only \$1424

Fighting Childhood Pneumonia in Uganda FINANCIALS

First Year Vaccination Team Expenditures ~ \$813,200

Second Year+ Expenditures ~ \$520,000

Fighting Childhood Pneumonia in Uganda FINANCIALS

\$3.30 per Pneumococcal Conjugate Vaccine (PCV) dose 4 Required Doses → \$13.20

Average cost of pneumonia treatment is \$52.95 per person

Preventive vaccination is a quarter of the cost of treatment

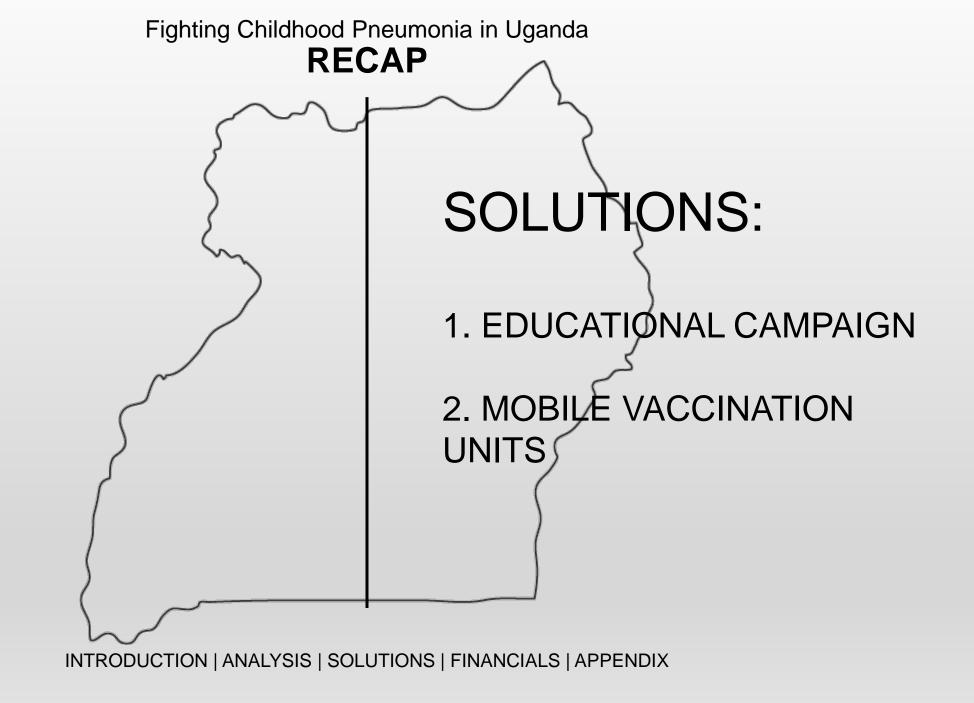
Fighting Childhood Pneumonia in Uganda FINANCIALS - CAMPAIGN

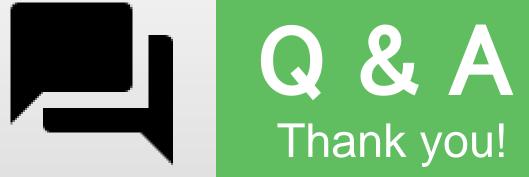
227 Cities\$19 per Poster100 Posters per City

Cities x Poster cost x Posters per City = \$431,300 280 Radio Stations in Uganda

Top 20 Radio Stations
35 Plays per week at \$75 per
Minute Slot =

\$2,730,000





Fighting Childhood Pneumonia in Uganda APPENDIX

RISK MITIGATION VACCINE FUNDING STARTUP COST CAMPAIGN LOGISTICS CAMPAIGN MOBILE VACCINATION TEAM LOGISTICS NURSING COSTS POSTERS SOLUTION ALTERNATIVE SOCIOECOLOGICAL CAMPAIGN RADIO ANALYSIS BASIS ANALYSIS MODEL **FEASIBLE UGANDA COMPARATIVE SUSTAINABLE UGANDA NGO POPULATION CASES SCALABLE**

Fighting Childhood Pneumonia in Uganda

RISK MITIGATION

Risk Mitigation

- •Money Mismanagement: Gavi's 2006Uganda Vaccine Program:
 - Most districts did not have training, not ready for introduction
 - Lack of progress
 - •Contextual changes: leadership, new financial systems led to poor planning and adjustment to plans.
 - •The relationship between vaccine stakeholders in Uganda is "delicate"
 - •2013 study showed that only 43% of health workers had sufficient knowledge of vaccines and unique handling requirements
- •To regulate and prevent money mismanagement, we will have periodic budget audits and check ins with our representatives from Gavi.

Fighting Childhood Pneumonia in Uganda VACCINE FUNDING

Through donor commitments, this innovative funding mechanism incentivises vaccine makers to produce suitable and affordable vaccines for the world's poorest countries. These countries are then able to plan for immunisation programmes knowing that vaccines will be available rapidly, in the quantities they need and at affordable prices.

The introduction of these vaccines is largely thanks to the generosity of Italy, the United Kingdom, Canada, the Russian Federation, Norway, and the Bill & Melinda Gates Foundation who together contributed US\$ 1.5 billion through an innovative financing mechanism, called the <u>Advance Market Commitment (AMC) for pneumococcal vaccines</u>.

MANUFACTURERS

Participating manufacturers must make a 10-year commitment to supply a share of the target demand of 200 million doses annually at a price no higher than US\$ 3.50 per dose (paid for by Gavi with a co-financing contribution from the recipient country governments, in accordance with Gavi's standard co-financing policy).

In return, each manufacturer will receive a share of the committed AMC Funds of US\$ 1.5 billion in proportion to their supply commitment.

Fighting Childhood Pneumonia in Uganda COMPARATIVE CASES

Smallpox Vaccine Dissemination

You cannot get vaccinated for smallpox (ended in 1972), because of its limited availability of vaccine and possibility of severe side effects. Routine Vaccination is not recommended to prevent disease to general public, but is available if a person gets exposed. Within four days of exposure, the severity can be limited.

(http://healthvermont.gov/emerg/smallpox/smallpox_fact.aspx#nine)

Fighting Childhood Pneumonia in Uganda NURSING COSTS

Previous Nursing Pay (USD/year)	\$1,380
Reformed Nursing Pay (USD/year)	\$3,480
Mobile Vaccine Nurse Pay (USD/ year)	\$3,500

Fighting Childhood Pneumonia in Uganda

UGANDA POPULATION

Social Structures/Cultural Factors of Uganda

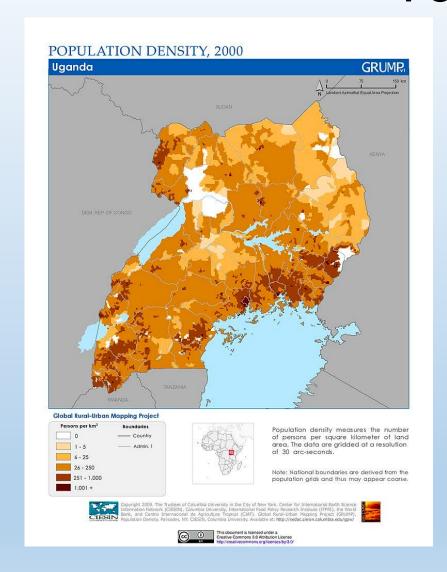
About Uganda:

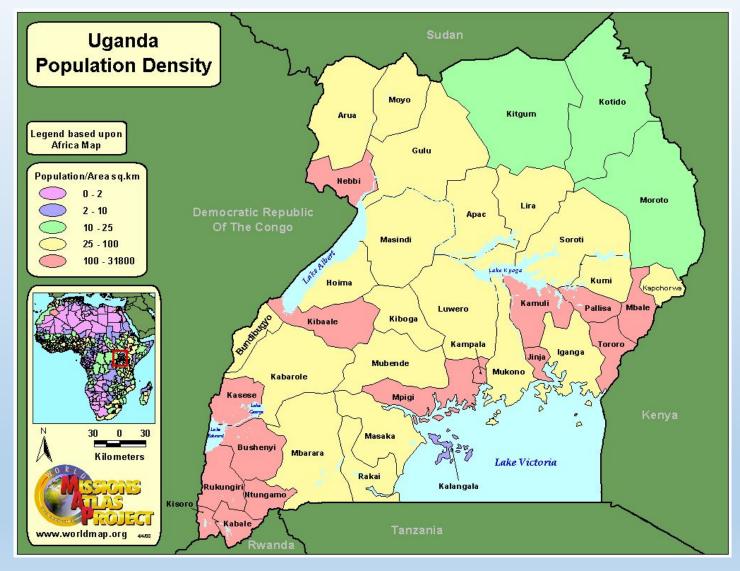
- -20th century: class system dominated by small, educated middle class (professionals, wage earners working for the state), and small number of commercial farmers. Population basically consists of poor peasant farmers and government workers.
- -agricultural country, soil & coffee=most important resource
- -women traditionally considered inferior to met; independence is extremely discouraged
- -"Budgets were usually inadequate to meet districts' needs, leaving district health managers in difficult position of making decisions..." (pg. 6)
- -"Long-term public financing of promising pilot programs was not guaranteed" (pg. 6)
- -nearly a quarter of population lived below poverty line, only a third of the population has access to improved sanitation (WATER)
- -avg GDP= \$1,424=ranked 166th in 2012
- -90% rural areas, 10% urban
- -traditional society:

Fighting Childhood Pneumonia in Uganda GDP PER CAPITA

Fighting Childhood Pneumonia in Uganda

POPULATION DENSITY





Fighting Childhood Pneumonia in Uganda UGANDA NGOS

Existing NGOs in Uganda

- •No current NGOs relating directly to pneumonia.
- •Uganda Health Marketing Group: Indigenous organization that was founded by reputable public health and social marketing Ugandan professionals in 2006.
 - •http://www.uhmg.org/
 - Committed to creating strategic health communication and accelerating health market growth in Uganda.