Reducing infant mortality

Pneumonia Diagnosis Aid
1 out of 6 childhood deaths were due to pneumonia in 2015

- 920,000 childhood deaths per year
- 2,500 childhood deaths per day
- 100 childhood deaths per hour
- 1 childhood death per 35 seconds

Source: UNICEF

MamaCope
Together let’s save babies.
What is Pneumonia?
Meet Alice
• Lives in Sub-Sahara Africa
• Pollution
• Less than 1$ income
• Breastfeeding
Access to healthcare still a challenge.

30km away
<table>
<thead>
<tr>
<th>Country</th>
<th>Doctor to Patient Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uganda</td>
<td>1:24000</td>
</tr>
<tr>
<td>WHO Standard</td>
<td>1:1000</td>
</tr>
</tbody>
</table>
Mis-Diagnosis

- due to -

Symptom Overlap  Conventional diagnostics  Malaria

The National Academies of
SCIENCE • ENGINEERING • MEDICINE
Acute story

- Convulsions
- Unable to feed
- Oxygen therapy
Not all hope is gone!
WHO & UNICEF
Integrated global action plan

Protection
Prevention
Treatment
The MamaOpe kit:

a) The wearable
b) The Mobile App &

c) A Cloud Sync system
Rapid
Simple to execute
Inexpensive
Tells disease severity and point of infection
Reduced Drug wastage

Drug resistance
Village Health Workers Bridging the Gap

Frontline Health Care
Management

Antibiotic therapy
Quick referral
MamaOpe Data

- Appropriate data for policy makers
- Families track their patients’ health progress & history
My only hope is that this jacket can reach a commercial value and be regulatory-body approved so that it can help the whole world.

Dr. Flavia Mpanga (UNICEF)
Special thanks