INNOVATIONS IN MONITORING VITAMIN A SUPPLEMENTATION PROGRAMS

Jessica Blankenship PhD
The use of mobile phones improves the ability to collect, review and interpret data from surveys and to provide timely feedback to inform campaign strategies and routine distribution.

• Using mobile phones:
  – Collect survey data after VAS distribution events
  – Collect and review supportive supervision and routine monitoring data
  – Report tally sheet data

• Mobile technology is not a stand alone programme, it complements and enhances strong monitoring systems to provide timely data and encourage the use of data to inform programme strategy
Use of Mobile Data collection for surveys and routine monitoring

How it Works

1. **Design**
   Author surveys quickly and easily in Excel and have instant access on your Android phone. No advanced technical degree required.

2. **Collect**
   Easily distribute your survey on an Android device or on the web. Data connection not needed.

3. **Analyze**
   Visualize your data as it is collected, and gain understanding with our powerful insights tools.
CREATING SURVEY FORMS

SURVEYS ARE AUTHORED IN EXCEL...

...AND UPDATED TO SERVER AND PHONES
DATA CAN BE COLLECTED VIA WEBFORM OR MOBILE
• Quick turn around time from data collection to interpretation
  – No double data entry
ADVANTAGES OF MOBILE DATA COLLECTION FOR SURVEYS

• Quick turn around time from data collection to interpretation
  – No double data entry

• Improved data quality as surveys can be designed with constraint checks and skip logic
3. How many regions are there in Cameroon?

Sorry, this response is invalid!
**Supervisors can view and modify collected data**

## Published Forms
Export, map, and view submissions.

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• Improved accountability by integrating GPS and time stamps into data collection
IMPROVED ACCOUNTABILITY BY INTEGRATING GPS AND TIME STAMPS INTO DATA COLLECTION
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• Improved accountability by integrating GPS and time stamps into data collection

• Improves ability to interpret data by adding geo-spatial level analysis
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

HKI VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

**PEGS Data**
- 6-59m
  - 6-11m
  - 12-59m
  - 6-59m Female
  - 6-59m Male
  - Deworming 12-59m

**Administrative Data**
- National 6-59m
- HK PECs Region 6-59m
- Difference Between PECs & Admin Data

**Benue (Round 2)**
- VAS (6-11m): 53.7%
- VAS (12-59m): 50%
- VAS (6-59m): 50.7%
- VAS (6-59m) Male: 50.9%
- VAS (6-59m) Female: 50.5%
- Administrative Catchment (6-59m): 92.6%
- Administrative 6-59m: 65.7%
- PECs Administrative A: 41.9%
- Deworming (12-59m): 16.2%

Map showing geographic distribution of vitamin A supplementation coverage in Benue and neighboring regions.
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

HKI VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

PECS Data
- 6-59m
  - 6-11m
  - 12-50m
  - 6-59m Female
  - 6-59m Male
  - Deworming 12-50m

Administrative Data
- National 6-59m
- HKI PECs Region 6-59m
- Difference Between
- PECs & Admin Data

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INTERNATIONAL

2013 (Round 2)
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- VAS (6-59m) Male: 50.9%
- VAS (6-59m) Female: 60.5%
- Administrative Catchment (6-59m): 92.6%
- Administrative 6-59m: 85.7%
- PECs Administrative Δ: -41.9%
- Deworming (12-59m): 16.2%

—

90–100%
80–89%
< 50%
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

HKL VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

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  - PECs Administrative Δ: 41.9%
  - Deworming (12-59m): 16.2%
Geo-spatial visualization of Vitamin A coverage

Children missed are in green
In addition to collection of survey data, mobile technology has been integrated in the collection of routine monitoring data.

Use of mobile technology is advantageous due to:
- Speed of information transfer
- Allows data to flow both ways with feedback loops and triggered responses

Does not replace oversight systems, only facilitates the ability to use data to inform programmatic decisions.
USE OF MOBILE TECHNOLOGY FOR TALLY SHEETS/ADMINISTRATIVE DATA
Use of structured SMS for tally sheets

+POST 235  +V100 1000 800 100  +V200 1200 950 126  +VITA 201 468

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<tr>
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<tr>
<td>+V200 1200 950 126</td>
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<tr>
<td>+VITA 201 468</td>
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6-11M 12-59M
SUPPORTIVE SUPERVISION

- Aggregation of supervision data for review
  - Improved accountability of supervision
  - Triggered response to address immediate actions needed
- Stockouts
MAPPING OF SUPPORTIVE SUPERVISION VISITS
REMINDERS FOR COMMUNITY MOBILIZERS AND CAREGIVERS

Bring your child for Vitamin A and Deworming to Child Health Days from 5th – 17th October at your nearest health facility at no cost.

Attention: Abdoulaye Diop qui a 6 mois aujourd'hui, doit se rendre au poste de santé Cs Ouakam pour recevoir une dose de supplémentation en Vitamine A.
DATABASE OF KEY STAKEHOLDERS FOR COMMUNITY MOBILIZATION INITIATION

Add Reporter

Name:

Phone:

Submit

Current Reporters

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• Mobile phone technology improves the speed and accuracy of data collection for surveys and routine monitoring.

• Reduced turn around time from data collection to interpretation improves the ability of programme managers to use data to implement course correction in a timely manner
HKI gratefully acknowledges the generous support of the Canadian Government for this work.