

Empowering Health Personnel

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GFMR 2013



Community Health Worker Challenges

Access

- Many eligible beneficiaries not enrolled
- Missed visits and referrals
- Inefficiency
- High CHW attrition

Quality

- Short visits
- Key steps skipped
- Sensitive issues avoided
- Insufficient training

Experience

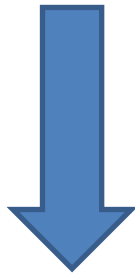
- Jobaids left at home
- Low credibility
- Messages not engaging

Accountability

- Monitoring reports delayed
- Only aggregate data delivered
 - Data quality low

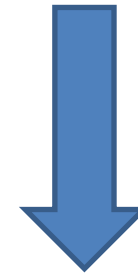
Community Health Systems

Community Health
Workers (CHW)



Positive health
outcomes

Better CHW
performance



Better health
outcomes



Roadmap for Rest of Talk

- 1 Dimagi and CommCare
- 2 Stories from India
- 3 Evidence
- 4 Partnerships

DIMAGI AND COMM CARE



Dimagi's Experience

- Social enterprise founded in 2002 at Harvard and MIT Media Lab,
- About 40 staff worldwide
- Offices in Boston, USA; New Delhi, India; and Cape Town, SA
- Core Funding: Bill and Melinda Gates Foundation, IDRC, UN Foundation, Norwegian Government, Rockefeller Foundation, USAID, Vodaphone Foundation, Wellcome Trust

Unique focus

- Open Source Products
- Enterprise-class cloud hosting with economies of scale
- Turnkey configurable solutions that do not require software developers to deploy



Dimagi Products

CommCare

Data and Workflow

- Data collection and case management solution
- Java feature phones or Android smartphones & tablets



CommConnect

Communication

- Secure and scalable
- 2-way SMS-based applications
- Any SMS-enabled mobile device.



CommTrack

Logistics

- SMS point of service logistics management systems
- Manage inventory and logistics for remote sites.



Implementation Services: technology enablement, design, and support

Case Management: Improving Service Delivery



Login



Find Client Case



View Client Summary

Fill Out a Form:

Checklist for Pregnancy Danger Signs

चेकलिस्ट

लगातार योनी से खून आने



☒ 1. हाँ
☐ 2. नहीं

Options Back

चेकलिस्ट

बच्चे का पेट में ना हिलना




☐ 1. हाँ
☐ 2. नहीं

Options Back

चेकलिस्ट

सर दर्द या धुंधलापन



☐ 1. हाँ
☐ 2. नहीं

Options Back



Addressing CHW Challenges

2. Home Visit (4)

Name	Days
Monica	TODAY
Ella	7
Anita	7
Ana	7

Find:

Options Cancel

Home Visits

1. Create New Client
2. Registration
3. Birth Preparedness
4. Delivery
5. Post-natal care
6. Exclusive Breastfeeding
7. Complementary Feeding

Select Back

First tetanus

1



☐ 1. Yes

☐ 2. No

Options Back

User	▲ Last 30 Days	◆ Last 60 Days	◆ Last 120 Days	◆ Ever
aisha.mwakitalima	54 (77% of 70)	70 (93% of 75)	75 (99% of 76)	76
george.mbogo	41 (67% of 61)	61 (95% of 64)	64 (89% of 72)	72
hayesh.ramadhani	36 (77% of 47)	47 (100% of 47)	47 (100% of 47)	47
asia.abdalla	35 (83% of 42)	42 (100% of 42)	42 (89% of 47)	47

Also available on Android Platform



CommCare ODK

 **CommCare**

 Get Started

Form Records

 Incomplete

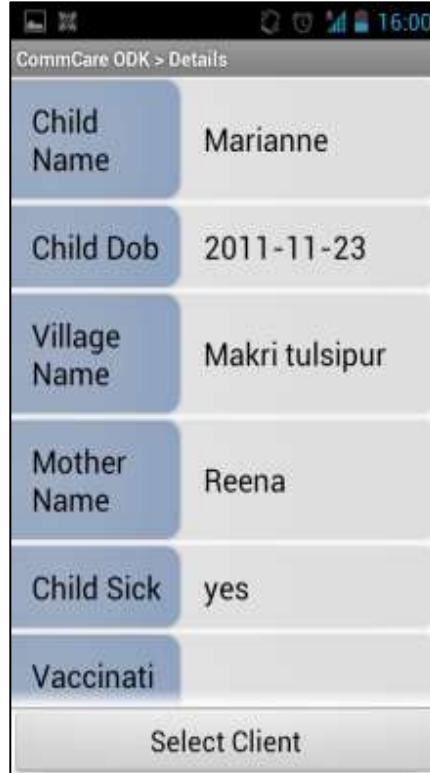
 Saved

 Sync with Server

You last synced with the server: Nov 7, 2012

CommCare ODK version: 2.2.0 (6121) - App 1621 - CommCare Version 2.2. Build 6121, built on: November-06-2012

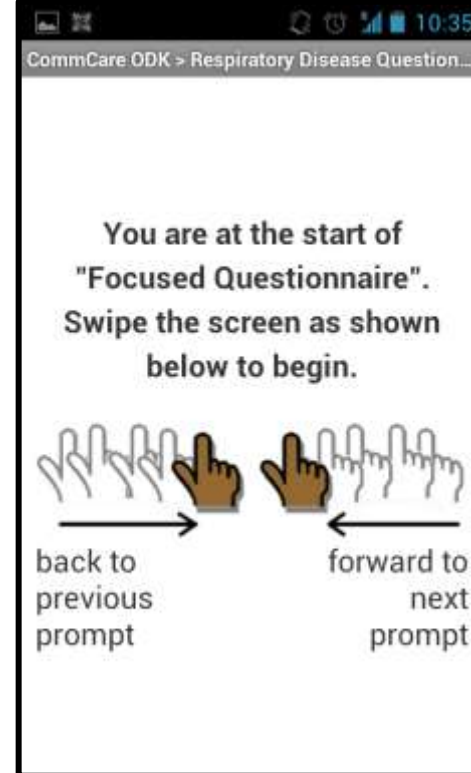
 Log out of CommCare



CommCare ODK > Details

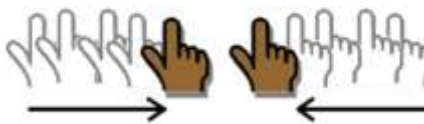
Child Name	Marianne
Child Dob	2011-11-23
Village Name	Makri tulsipur
Mother Name	Reena
Child Sick	yes
Vaccinati	

Select Client



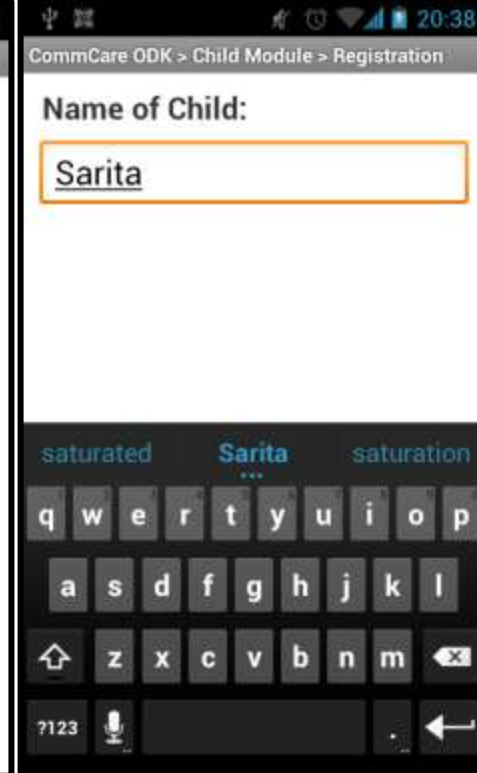
CommCare ODK > Respiratory Disease Questionnaire

You are at the start of "Focused Questionnaire".
Swipe the screen as shown below to begin.



back to previous prompt

forward to next prompt



CommCare ODK > Child Module > Registration

Name of Child:

Sarita

saturated Sarita saturation

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

?123

CommCare: Mobile Solution for Frontline Workers



Manage Data

Use CommCare Mobile for complex data collection, submitted to the web in real-time



Manage Clients

Use “case management” to track client data



Engage with Multimedia

Use images, audio, and video to educate and engage frontline workers and their clients.



Monitor & Support Workforce

“Active Data Management” utilizes the data you collect to focus on the continuous performance improvement of your workforce.



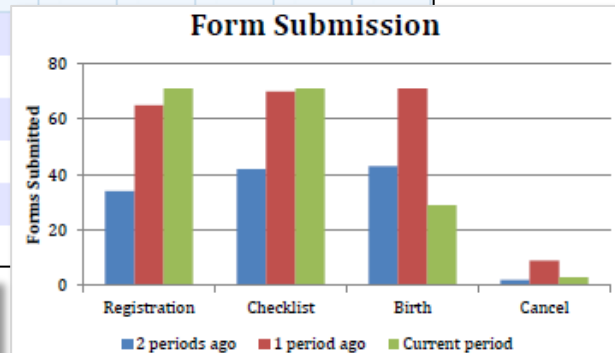
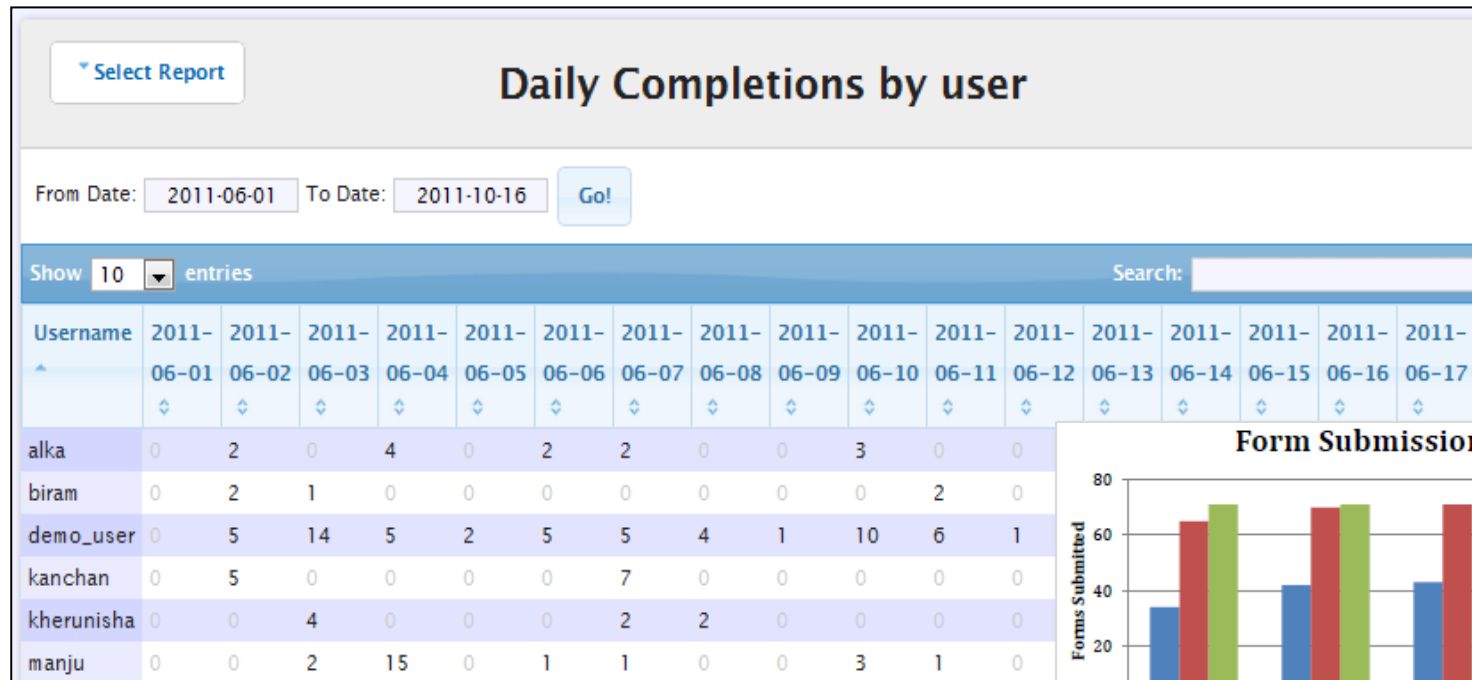
Manage Apps and Users

Remotely manage your CommCare application and mobile workforce from our web-based application.

Mobile

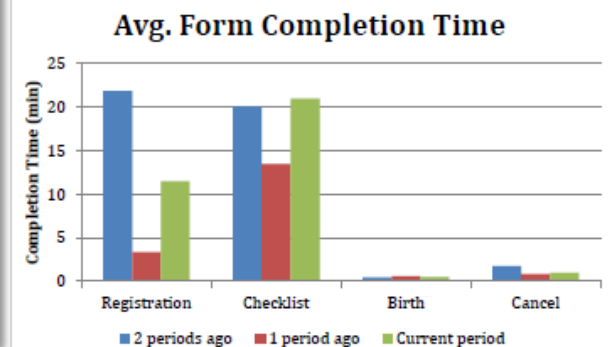
Web

Worker Monitoring Reports

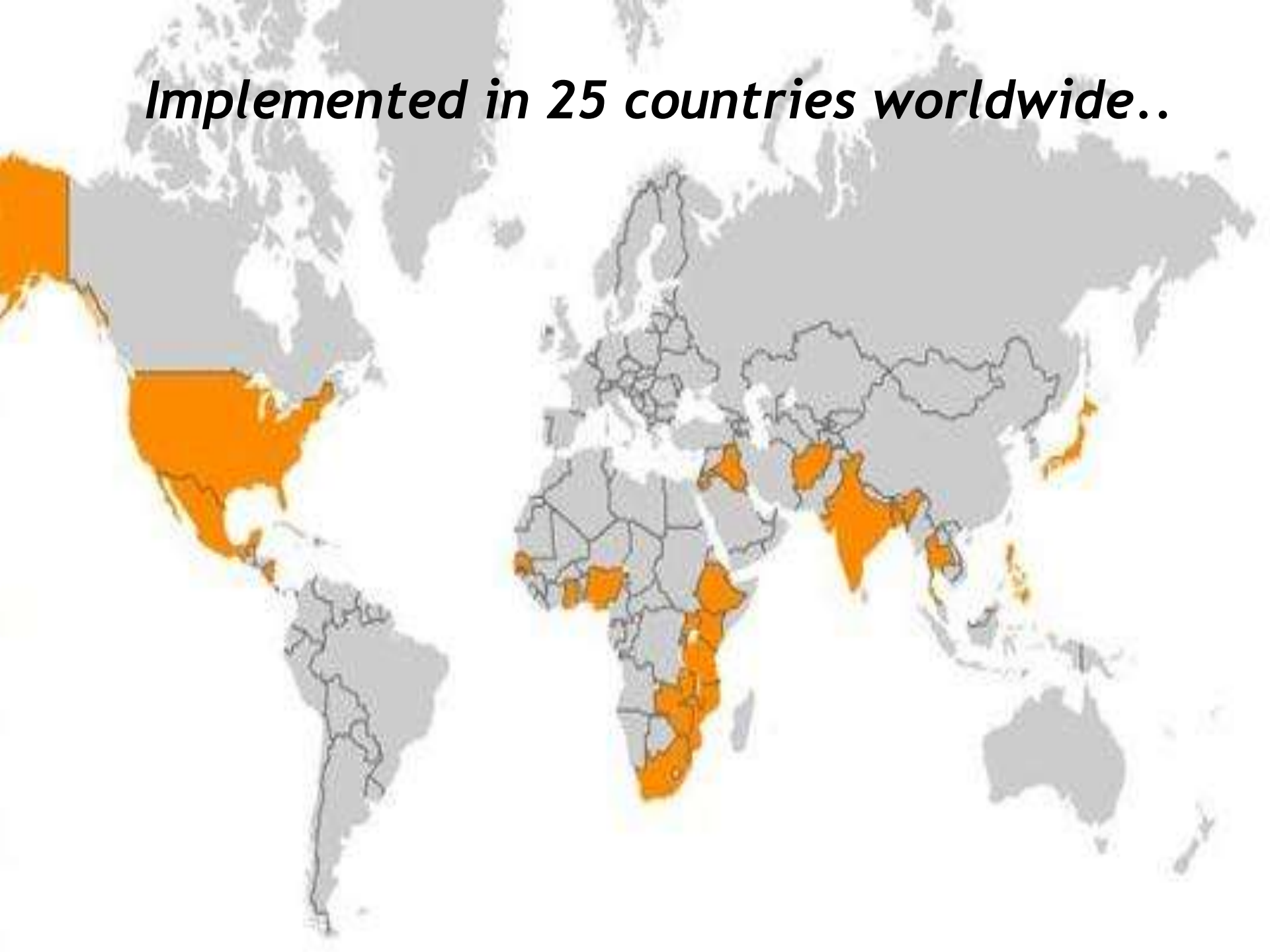


CHW Follow-Up

Action Table	Lowest	Highest
Follow up with: Lowest/Highest 3 performing CHWs for "Avg. Form Completion Time - "Pregnancy Checklist"	CHW#3 - 2:57	CHW#1 - 31:50 CHW#2 - 27:46 CHW#4 - 26:51
Follow up with: Lowest/Highest 3 performing CHWs for "Form Submissions - All forms"	CHW#6 - 5 CHW#8 - 9 CHW#9 - 10	CHW#6 - 30 CHW#8 - 27 CHW#3 - 26
Follow up with: Lowest/Highest 3 performing CHWs for "30-day Client Follow-up Percentage"	CHW#1 - 45% CHW#2 - 50% CHW#3 - 60%	CHW#5 - 80% CHW#9 - 78% CHW#4 - 75%



Implemented in 25 countries worldwide..





WHAT WE'VE LEARNED



1

Content specification for technology requires a systematic assessment of your current protocols

- Be more specific
- Uncovers vague and unclear processes
- Be creative

Paper



Mobile Application



- **Data collection/Surveys:**

- Display conditions
- Validation constraints
- Open-ended questions vs. choices

- **Workflows:**

- Is there redundancy?
- Organize content to reflect CHWs visit schedule

- **Media Integration**

- Craft the counseling messages with care
- Audio messages will be standardized for all beneficiaries

What do you want your application to do?



Guided Counseling and Care Tracking



Maternal Health
CRS, World Vision, Save the Children
Uttar Pradesh, Maharashtra, Rajasthan

Non-Guided Counseling (Chapters & Lessons)



demo user

1. पंजीकरण
2. पासवर्ड
3. बदलना
4. प्रभाव

विकासकर्ता बाह्य विकासकर्ता

पाठ का चयन करें

- ☒ 1. मातृवारी स्वच्छता
- ☐ 2. पीप / प्रजनन स्वास्थ्य
- ☐ 3. परिवार नियोजन
- ☐ 4. गर्भवति/प्रसूत सौख्य
- ☐ 5. कौशल
- ☐ 6. बच्चा की
- ☐ 7. मातृवारी
- ☐ 8. मातृवारी

विकासकर्ता पीप

करें स्वच्छता

मातृवारी स्वच्छता



☒ 1. हाँ

☐ 2. नहीं

विकासकर्ता पीप

वैयक्तिक जानकारी

नाम: Anamika

उम्र: 23

गाँव: Manghanpur

बच्ची: 2

स्थिति: विवाहित

पति: Anil

पाठ: 1

पाठ 1: 21/07/12

पाठ 2:

पाठ 3:

विकासकर्ता पीप

**Sexual Reproductive Health
Pathfinder International
Bihar**

Recommended Counseling (Mixed Method)

Workflow Support/Protocol Guidance



**Malnutrition, RMF
Madhya Pradesh**

Child Nutrition and Health

बच्चे का नाम Laila
पूरा नाम
पिता का नाम Kaushik
माता का नाम Devi
ग्राम का नाम Khandwa
बच्चे की उम्र (महीने) 10
विकास ☐ बाहर निकले

परिहार नियोजन 1. हो
स्वास्थ्य सेवा की जानकारी

पृ 1. हो
पृ 2. नहीं
विकास ☐ पीछे

बच्चा कहीं पर है? 1. घर पर है
MUAC का माप 11
विकास ☐ मिटाए

Worksheet - Part One - Content

1. Who are the beneficiaries of the CommCare application?

Example: Pregnant women and newborn infants.

2. Who are the users of the CommCare application?

Example: Government community health workers who visit women during their pregnancies and for the first 30 days after birth.

3. What data points do you want to collect? Please add one row to the table below for each data element. The table below contains a few *example data points*.

Description	Type (Number, Yes/no, Single-select, Multi-Select, Date, Free text)	When data will be collected
Full name	Free text	Mother registration
Age	Number	Mother registration
Last menstrual date	Date	Mother registration
Have you had a tetanus booster?	Yes/No	Mother follow-up visit
Where did you give birth previously?	Multi Select (at home, at clinic, in hospital)	Mother follow-up visit
Do you have a birth plan?	Yes/no	Mother follow-up visit (3 rd trimester mothers only)

Add husband name or other details? What happens if duplicate names?

Any constraints on date? Cannot enter future date or passed a certain date (10 months from now?)

Add constraints for age. < or > a particular age?

What happens if woman is not sure if she received a tetanus shot? Should there be a third option?

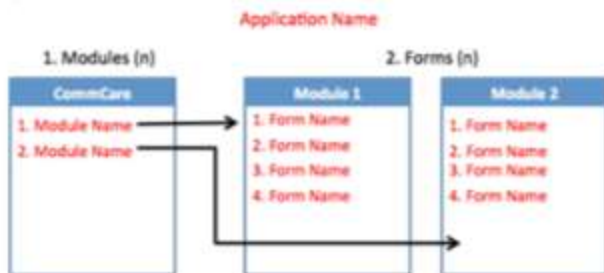
How many days after the last menstrual date should we calculate the third trimester?

4. What counseling messages do you want to support? Please add one row to the table below for each counseling message. The table below contains a few *example counseling messages*.

Text that should appear on phone	(Optional) Image that will accompany text	(Optional) Audio file that can be played by user	When message will be given
Exclusive breastfeeding	Giving only breast milk until 6 months of age with no other fluids or food, including water, is very important for babies.	Picture of a mother breastfeeding.	Mother follow-up visit (3 rd trimester mothers)

For child, would you like this message to disappear after 6 months of age?

Worksheet - Part Two - Case Management



In the spreadsheet below, please fill in 1) the names of your application's modules 2) the names of forms within each module.

Module Name	Form Name
<i>Mother Module</i>	<i>Registration Checklist</i>
	<i>Pregnancy Checklist</i>
	<i>Birth Checklist</i>

Case Type (n)	
Name	EDD
<u>Meena</u>	02/12/12
<u>Soni</u>	02/02/13
<u>Kusum</u>	03/10/12
<u>Kiran</u>	04/06/12
<u>Leena</u>	01/11/13
<i>Search:</i>	

Please define variables for the case list. Examples in italics.	Indicate an 'x' in the column that applies. See Tip #2.	
	Displayed in list	Hidden and searchable
<i>Name of beneficiary</i>	X	
Husband's Name		X
Services due for ANC <ul style="list-style-type: none"> ANC1 ANC2 ANC3 	X	
Telephone number		X
Village name	X	
Name of Sahiya		X

The CommCare Definition

#	question code	question text	question type	options for multiple choice question OR constraints for open-ended questions	display condition	audio description-English	audio description-Hindi	image description
1	client_name	Name	open-ended					
2	client_gender	Gender	multiple choice	male, female				
3	client_age	Age	integer	10-100				
4	phone_number	Phone number	phone number	10 digits				
5	is_pregnant	Is the client pregnant?	multiple choice	yes, no	client_gender=female			
6	Imp	When was her last menstrual period?	date	yes, no	is_pregnant=yes			
7	show_edd	EDD: [Imp+274 days]	prompt		is_pregnant=yes			
8	previous_birth	Have you given birth in the last 2 years?	multiple choice	yes,no	is_pregnant=yes			
9	last_birth	How many months ago?	integer	number must be between 1 and 24	previous_birth=yes			

Dimagi's Open Source Image Library

<http://www.flickr.com/photos/86561884@N02/sets/>



General
32 photos



Family Planning
56 photos



Pregnancy General
62 photos



Pregnancy Care
2 photos



Postpartum Counsel
26 photos



Nutrition
13 photos



Newborn Vaccinations...
16 photos



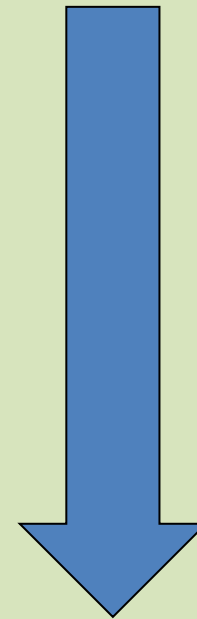
Newborn Danger Signs
26 photos



The best solutions come from the users themselves. Field testing with CHWs is essential.

1. Global HQ
2. In-country HQ
3. Field Managers
4. Talking to CHWs
5. Working with CHWs

IDEAL INTERVENTION



ACTUAL INTERVENTION

Rapid prototyping of a Pregnancy App

V1 - Scoring

April 2011



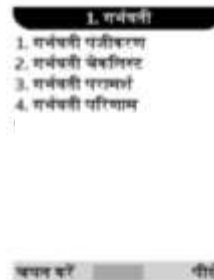
V2 - Checklist & Counseling

May 2011



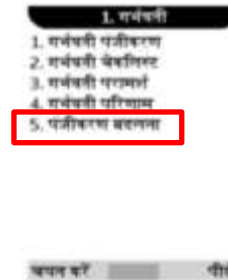
V3 – Separate Counseling

May 2012



V4 - Edit form

June 2012




V5 – Infant sub-cases

July 2012



Icons and audio playback in the menus

V6 – Menus for low literate/illiterate users March 2013



The image shows three women in a library setting. The woman in the foreground, wearing a pink headscarf, is looking down at a menu. The woman in the middle is smiling and looking up. The woman in the background is also smiling. The menu is a digital interface with a list of options in Hindi. A large blue arrow points from the first menu to the second menu.

demo_user: 4

1. गर्भवती
2. शिशु

1. गर्भवती

1. गर्भवती पंजीकरण
2. गर्भवती चेकलिस्ट
3. गर्भवती परामर्श
4. गर्भवती परिणाम
5. पंजीकरण बदलना

demo_user

1. गर्भवती पंजीकरण
2. गर्भवती
3. शिशु

2. गर्भवती

1. गर्भवती चेकलिस्ट
2. गर्भवती परामर्श
3. गर्भवती परिणाम
4. पंजीकरण बदलना

चयन करें बाहर निकलें चयन करें पीछे

Images and Audio for each question for improved usability and client engagement.



**Audio playback in
options and icons.**

**Messages confirm
answer or provide
further counseling
based on answer.**



3

Scale-up strategies should involve building capacity of the entire organization to learn the technology and its components.

Proof of Concept

10 CHWs



Pilot

40-500 CHWs



Scale

???



Organizational training needs for CommCare adoption and scale-up

	Mobile		Server		
	Application	Troubleshooting	Monitoring	Data Analysis	Maintenance
CHW	✓				
Supervisors	✓	✓	✓		
Trainers	✓	Optional			
Technical Support	✓	✓			✓
Managers	✓		✓	✓	
Data Staff	✓			✓	

Large Scale CommCare Trainings



Dimagi



Trainer



Supervisor/
Tech Support



CHW

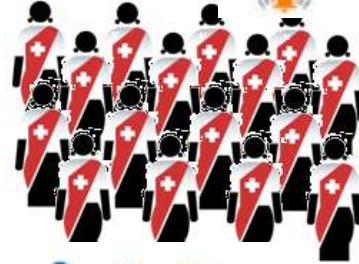
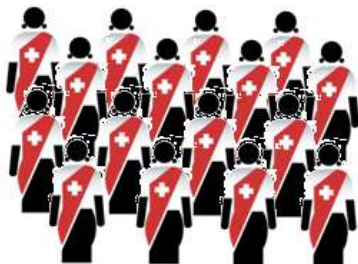
Technical & Supervisor Training



Training of Trainers



Training Users



Supervision & Monitoring of CHWs

CommCareHQ - Server
**SUPERVISOR/DISTRICT/PROVINCE
PROGRAM MANAGERS**



Case	Last 30 Days	Last 90 Days
11 (17% of 64)	18 (19% of 95)	24 (24% of 100)
1 (0.2% of 4)	6 (100% of 6)	6 (100% of 6)
2 (2.5% of 8)	8 (73% of 11)	8 (73% of 11)
3 (4.5% of 7)	7 (70% of 10)	7 (70% of 10)
4 (5.0% of 8)	9 (56% of 16)	9 (56% of 16)
10 (10% of 10)	18 (100% of 18)	18 (100% of 18)
7 (5.0% of 14)	11 (80% of 14)	11 (80% of 14)
15 (75% of 20)	21 (91% of 23)	21 (91% of 23)
14 (70% of 20)	21 (90% of 23)	21 (90% of 23)

Supervisors follow-up and support CHW based on performance

CommCare - Mobile
HOME VISIT

Data is submitted to server from mobile to server via mobile internet



SUPERVISOR



CHW



BENEFICIARY



Worker Monitoring Reports

▼ Select Report

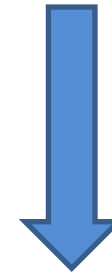
Daily Completions by user

From Date: 2011-06-01 To Date: 2011-10-16 Go!

Show 10 entries Search:

Username	2011-06-01	2011-06-02	2011-06-03	2011-06-04	2011-06-05	2011-06-06	2011-06-07	2011-06-08	2011-06-09	2011-06-10	2011-06-11	2011-06-12	2011-06-13	2011-06-14	2011-06-15	2011-06-16	2011-06-17
alka	0	2	0	4	0	2	2	0	0	3	0	0	0	2	0	0	6
biram	0	2	1	0	0	0	0	0	0	0	2	0	0	0	6	6	0
demo_user	0	5	14	5	2	5	5	4	1	10	6	1	2	22	5	4	4
kanchan	0	5	0	0	0	0	7	0	0	0	0	0	0	1	0	2	0
kherunisha	0	0	4	0	0	0	2	2	0	0	0	0	2	0	0	0	5
manju	0	0	2	15	0	1	1	0	0	3	1	0	0	0	0	1	0

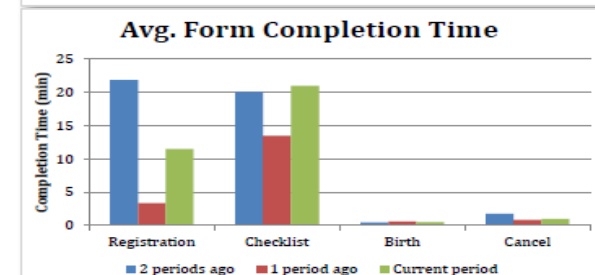
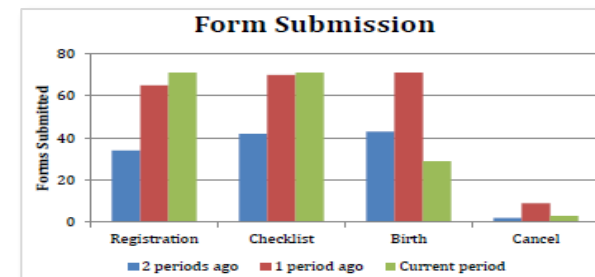
Better CHW performance



Better health outcomes

CHW Follow-Up

Action Table	Lowest	Highest
Follow up with: Lowest/Highest 3 performing CHWs for "Avg. Form Completion Time - Pregnancy Checklist"	CHW#3 - 2:57	CHW#1 - 31:50 CHW#2 - 27:46 CHW#4 - 26:51
Follow up with: Lowest/Highest 3 performing CHWs for "Form Submissions - All forms"	CHW#6 - 5 CHW#8 - 9 CHW#9 - 10	CHW#6 - 30 CHW#8 - 27 CHW#3 - 26
Follow up with: Lowest/Highest 3 performing CHWs for "30-day Client Follow-up Percentage"	CHW#1 - 45% CHW#2 - 50% CHW#3 - 60%	CHW#5 - 80% CHW#9 - 78% CHW#4 - 75%



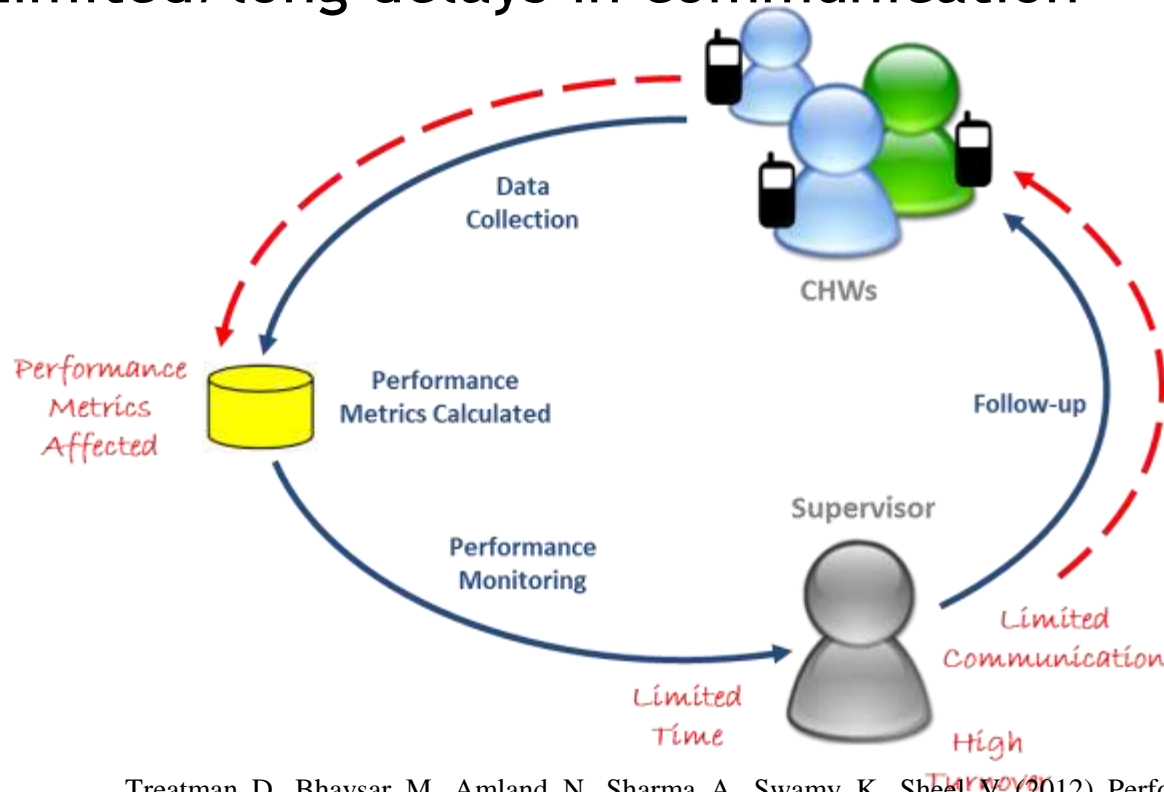


Design processes to support and improve CHW's service delivery based on evidence.

Accountability also extends to supervisors.

Supervision affects CHW performance

- Limited time dedicated for supervision
- High field staff turnover (challenge in learning tech)
- Limited/long delays in communication

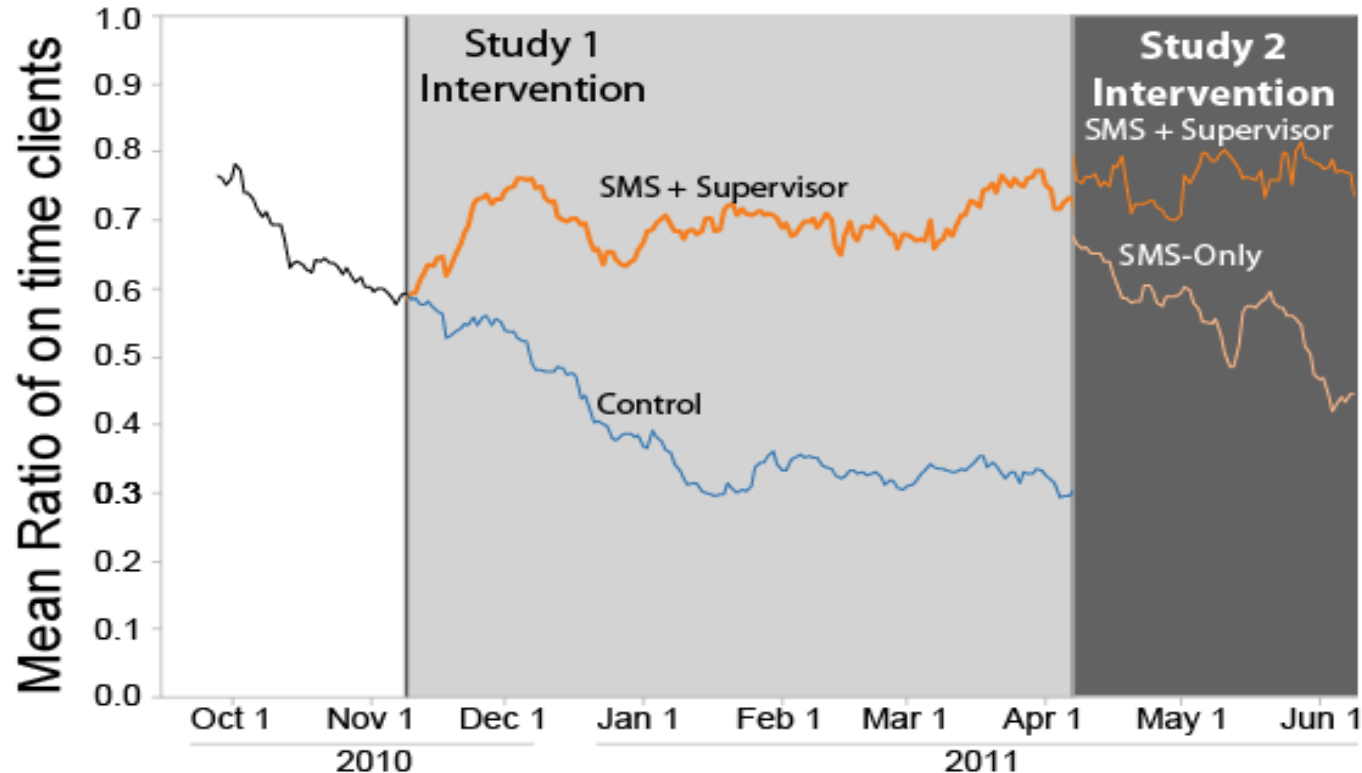


Treatman, D., Bhavsar, M., Amland, N., Sharma, A., Swamy, K., Sheel, V. (2012). Performance Metrics Indicative of Supervision: A Study of Community Health Workers. *IAMI Biennial Conference*: New Delhi, India.

COMM CARE EVIDENCE

Improved Access

CHW Performance Over Time



- 85% More timely Visits
- Randomized Controlled Trial

Improved Quality

Investigation	Current practice adherence	e-IMCI adherence	p-value
Vomiting	66.7% (n=24)	86% (n=28)	-
Chest indrawing	75% (n=20)	94% (n=18)	-
Blood in stool	71% (n=7)	100% (n=3)	-
Measles in the last 3 months	56% (n=9)	95% (n=21)	< 0.05
Tender ear	0% (n=1)	100% (n=5)	-
All	61% (n=299)	85% (n=359)	< 0.01

- 20% Improvement to Protocol Adherence in a Randomized Controlled Trial
- Intrahealth Preliminary Result in India: ASHAs had increased their knowledge retention of at least 3-5 key danger signs from 48% at baseline to 70%
- Improvement in IMCI protocol adherence

Improved Experience



Qualitative Assessment

- Phones/CommCare add credibility to CHWs
- Multimedia helps engage clients and their families
- Audio helps CHWs recall key counseling messages
- Audio facilitates discussion on sensitive topics

Treatman, D., Lesh, N, Strengthening Community Health Systems with Localized Multimedia, M4D'12 to appear.

Chittamuru, D. and Bhavsar, M. (2012). CommCare: Evaluation of a Mobile Application for Maternal Health in Rural India. *IAMCR Durban: Communication Policy and Technology: Critical Perspectives on Digital Inclusion and Policy*. Durban, South Africa.

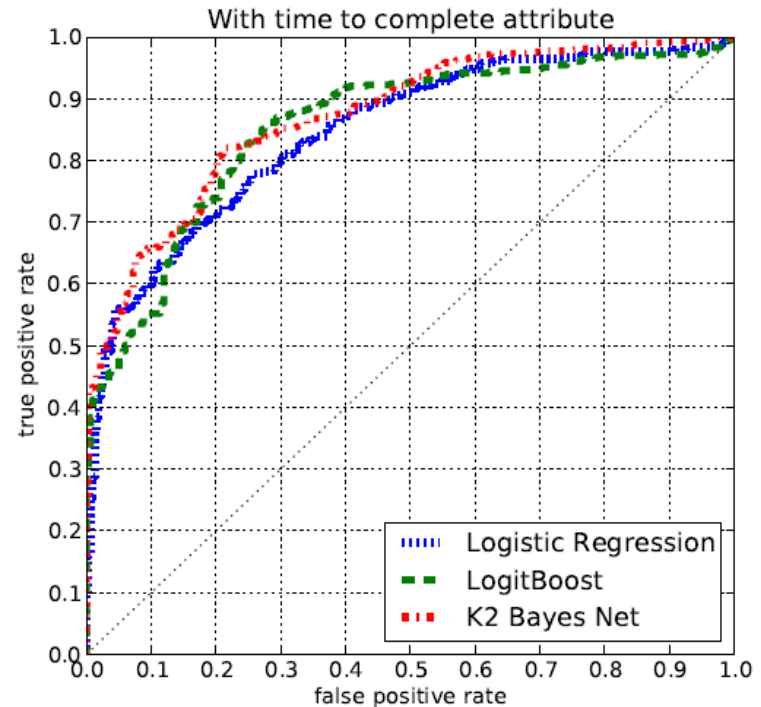
Improved Accountability

Detecting Surprising Answers

- Analyze distributions of answers by a CHW.
- Example

Question: Did you give any referral in this household?
Overall: 93% No, **7% Yes**
CHW #3: 62% No, **38% Yes**
- Detects systematic errors
- Supports quality control

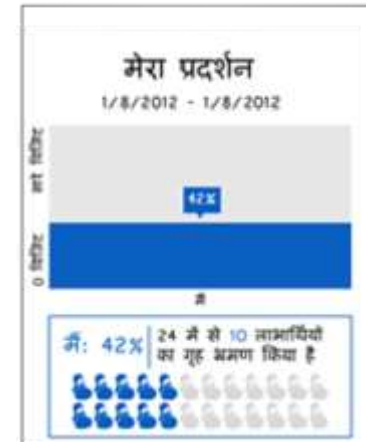
Detecting Fake Forms



(Work by Ben Birnbaum et. al. '2012)

CHW Performance Feedback

- If ASHAs know their relative performance, does that encourage them to complete more of their visits?
- Background:
 - There are a number of studies about relative vs absolute performance – with variable outcomes
 - We want to understand how we can provide actionable feedback to the CHW



Active CC Investigations at a Glance

	Hypothesis	Experiment
ACCESS	<ul style="list-style-type: none"> CommCare increased number of family members who participate during a home visit/counseling session 	<ul style="list-style-type: none"> Comparing number of home visits and self-reported number of family members present during counseling sessions for ASHAs using CommCare
QUALITY	<ul style="list-style-type: none"> CommCare improves motivation of CHWs 	<ul style="list-style-type: none"> Studying motivation levels of CHWs in control site vs. CommCare intervention sites using job satisfaction survey
	<ul style="list-style-type: none"> CommCare improves knowledge of CHWs and reinforces training concepts 	<ul style="list-style-type: none"> Studying pre/post knowledge assessments
	<ul style="list-style-type: none"> CommCare increases client retention of information 	<ul style="list-style-type: none"> Test knowledge improvement amongst beneficiaries in CommCare intervention and control sites
EXPERIENCE	<ul style="list-style-type: none"> CommCare allowed CHWs to discuss sensitive or taboo subjects. CommCare allowed CHWs to work around cultural and social barriers (use of multimedia) 	<ul style="list-style-type: none"> Studying patterns of multimedia usage in home visits where CommCare was used
ACCOUNTABILITY	<ul style="list-style-type: none"> Regular feedback to CHWs improves performance metrics 	<ul style="list-style-type: none"> Studying 2-3 performance indicators over 3 months for 60 CHWs in Madhya Pradesh, who received weekly performance feedback via Call Center

* *Two Large Evaluations Planned for 2012:*

+ **Randomized controlled study in Bihar.** Partnering with CARE and Mathematica Policy Research to assess the overall health impact of CommCare as a package intervention in the delivery of maternal and newborn health services in Bihar.

+ **Factorial randomized controlled study.** Also partnering with the government of Kaushambi in Uttar Pradesh, Catholic Relief Services (CRS), Harvard Business School, and University of Washington to more deeply probe how CommCare influences CHW behavior and client outcomes.

WANTED: Research Collaborators

Dimagi is always looking for research partners to help carry out studies that will help lead to optimized mobile tools for Community Health Workers (CHWs) and improve health outcomes for their beneficiaries. We have lots of ideas/questions and are eager to hear yours!

What we do:

What we want to learn about:

MULTIMEDIA



Does use of multimedia in CommCare increase retention of health info?

Which types of multimedia are more effective than others?

Can multimedia facilitate discussion about sensitive topics?

CHW PERFORMANCE



Does use of CommCare reduce worker turnover?

Does use of CommCare/mobile tools increase credibility of CHWs?

How can CommCare encourage a high rate of follow-up with clients?

HARDWARE



How is the user and/or beneficiary experience affected by hardware type?

What else do CHWs try to do on their phones?

Are smartphone versions of CommCare more intuitive for low-literate users?

WANTED: Research Collaborators

DATA



Case	Start Date	End Date
11/11/14	11/11/14	11/11/14
11/12/14	11/12/14	11/12/14
11/13/14	11/13/14	11/13/14
11/14/14	11/14/14	11/14/14
11/15/14	11/15/14	11/15/14
11/16/14	11/16/14	11/16/14
11/17/14	11/17/14	11/17/14
11/18/14	11/18/14	11/18/14
11/19/14	11/19/14	11/19/14
11/20/14	11/20/14	11/20/14

Does CommCare improve accuracy and/or timeliness of data?

How can data be made actionable?

What types of data visualization are most useful/broadly understood?

PROJECT



What are major barriers to success for a CommCare project?

Does use of CommCare in a project improve health outcomes?

What elements are required for a successful mHealth project?

USABILITY



How can CommCare be optimized for low literate or illiterate users?

What are the best practices for structuring/designing applications?

How does CommCare help CHWs to plan and think about their work?

PARTNERSHIPS

Getting Started with Mobile Health!

Design Your Own App



**Field Test Your App
w/ 10 free phones**



Two Weeks Field Support
(We train your project team
& CHWs)



12 months Remote Support

ommCare



USAID
FROM THE AMERICAN PEOPLE

ihat
India Health Action Trust



PCI

mia
micro insurance academy



IIHMR
JAIPUR



FutureGenerations



Aarohi

EngenderHealth
for a better life

Durbar
Durbar Mahila Samanwaya Committee

Sharing CommCare Apps on the Exchange

← → ↻ <https://www.commcarehq.org/exchange/>

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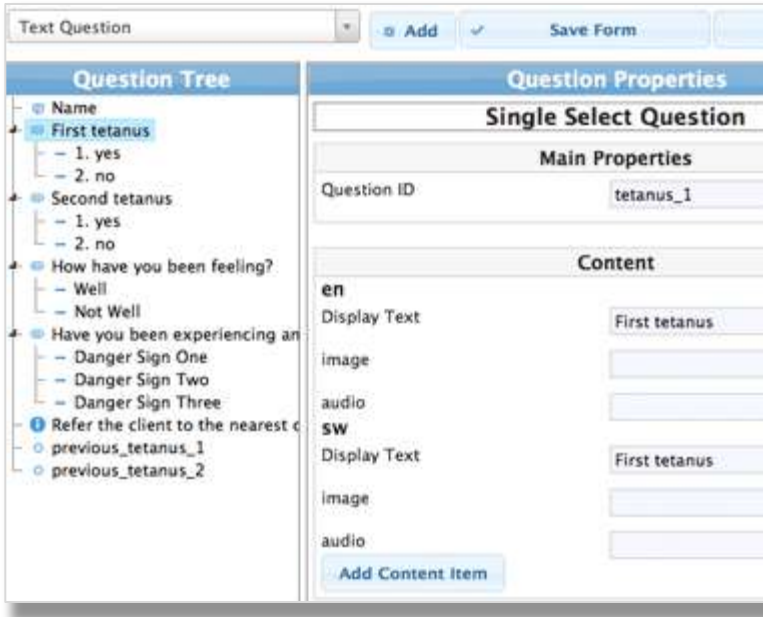
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EXERCISE

Application Builder



Create Your Own Application

- Online tools to build your own CommCare application
- Collect information including dates, multiple choice, images, video, bar code, and GPS.
- Create simple surveys or complex counseling forms

Download From the App Store

- Leverage previously built apps to get started quickly
- Share your own apps with the community



CommCare Tutorial

- Step by step guide on how to create your first application!

Step 1:

Worksheet

1. Who are the beneficiaries of the CommCare application?

Example: Pregnant women and newborn infants.

2. Who are the users of the CommCare application?

Example: Government community health workers who visit women during their pregnancies and for the first 30 days after birth.

3. What data points do you want to collect? Please add one row to the table below for each data element. The table below contains a few *example data points*.

Description	Type (Number, Yes/no, Single-select, Multi-Select, Date, Free text)	When data will be collected
<i>Full name</i>	<i>Free text</i>	<i>Mother registration</i>
<i>Age</i>	<i>Number</i>	<i>Mother registration</i>
<i>Last menstrual date</i>	<i>Date</i>	<i>Mother registration</i>
<i>Have you had a tetanus booster?</i>	<i>Yes/No</i>	<i>Mother follow-up visit</i>
<i>Where did you give birth previously?</i>	<i>Multi Select (at home, at clinic, in hospital)</i>	<i>Mother follow-up visit</i>
<i>Do you have a birth plan?</i>	<i>Yes/no</i>	<i>Mother follow-up visit (3rd trimester mothers only)</i>

4. What counseling messages do you want to support? Please add one row to the table below for each counseling message. The table below contains a few *example counseling messages*.

Text that should appear on phone	(Optional) Image that will accompany text	(Optional) Audio file that can be played by user	When message will be given
<i>Exclusive breastfeeding</i>	<i>Giving only breast milk until 6 months of age with no other fluids or food, including water, is very important for babies.</i>	<i>Picture of a mother breastfeeding.</i>	<i>Mother follow-up visit (3rd trimester mothers)</i>

Thank you!

Contact: mbhavsar@dimagi.com
POC: poc-applications@dimagi.com

Additional Videos:

CommCare Overview Video: <http://youtu.be/ZpfvISKxyle>

CommCare Demo Video with multi-lingual support from India: <http://youtu.be/30Ftk6STM3U>

Recorded Webex of CommCare Presentation given to NetHope: <http://bit.ly/tiLaYy>

Additional Resources:

<http://groups.google.com/group/ict4chw>

<http://www.commcarehq.org>

<http://www.dimagi.com>



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