

Organising evidence on communication interventions to improve childhood vaccination in low- and middle-income countries: developing and applying the 'Communicate to Vaccinate' taxonomy

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August 2013
IUHPE World Conference on Health Promotion
Pattaya, Thailand















What is a taxonomy?



- A classification system based on conceptual similarities
- Organises a broad and complex field of research
- Will help to illustrate the range of interventions















Why do we need a taxonomy for vaccination communication interventions?

- Many vaccination communication interventions used globally but limited organisation of the field
- Information spread across process documents, government and NGO reports, trials and other research literature
- Decision makers need to have an overview of the range of interventions available
- Taxonomy can help frame future research or recommendations































		TARGET				
		Parents or expectant parents	Communities, community members or volunteers	<u>Health professionals</u>		
	Inform or educate	 One on one interactions Group interactions Mail (postcards, letters or email) Phone-based (calls, hotlines or SMS) Device or tool Audio visual / performance Printed material Web-based 	 One on one interactions Group interactions Mail (postcards, letters or email) Phone-based (calls, hotlines or SMS) Device or tool Audio visual / performance Printed material Web-based Media campaign Community event Celebrity spokespeople 	Phone-based (calls, hotlines or SMS)		
P U R P O S E	Remind or recall	One on one interactionsMail (postcards, letters or email)Phone-based (calls, hotlines or SMS)Device or tool		One on one interactionsDevice or tool		
	Teach skills	Training in how to communicate / provide education to othersParenting skills programs	Training in how to communicate / provide education to others	Training in how to communicate / provide education to others		
	Provide support	One on one interactionsGroup interactionsPhone-based (calls, hotlines or SMS)Web-based				
	Facilitate decision making	Decision aids		Decision aids		
	Enable communication	• Interpreters				
	Enhance community ownership	Program delivery	Local opinion leadersCommunity inputProgram deliveryCommunity coalitionPartnership building			

Taxonomy development methods



STAGE 1: Identifying interventions

- Search for interventions
 - CENTRAL, Medline, discussion with experts, grey literature
- Sample, screen and extract data from search results
 - Screened 556 results from CENTRAL and 1001 from Medline
 - Extracted information about study design, participants, intervention type, frequency and delivery method









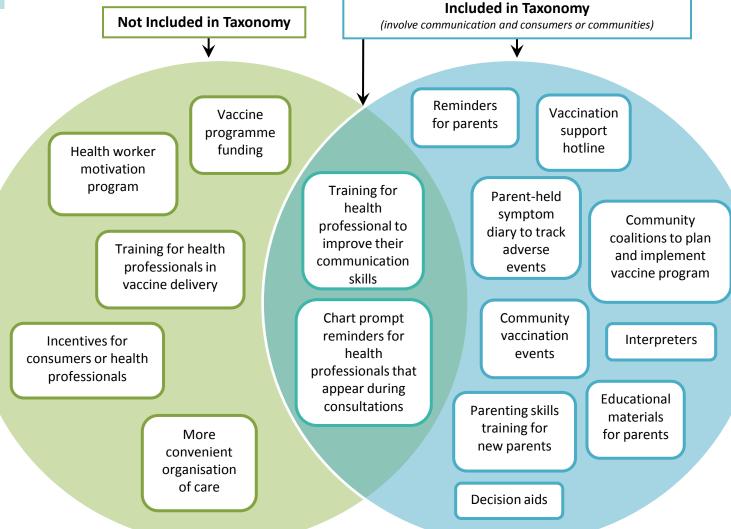






Scope of COMMVAC project



















Taxonomy development methods



STAGE 2: Drafting, consulting and finalising the taxonomy

- Group interventions
 - Database of interventions
 - Purpose, intervention type, target
- Present taxonomy at deliberative forums
 - Ottawa, New York (IUHPE meetings), online
 - Discussion questions
- Finalise















Pg 1

TARGET

Inform or educate

Group interactions e.g. Group parental education sessions

birth

Mail (postcards, letters or email) e.g. Parents mailed written information

One on one interactions

Phone-based (calls, hotlines, SMS) e.g. Vaccine information phone calls to

Parents or expectant parents

e.g. Hospital education for mothers after

Device or tool

parents

e.g. Refrigerator magnets with immunisation schedule

Audio visual / performance

e.g. Video presentation to parents

Printed material

e.g. Pamphlet with vaccine information

Web-based

e.g. Vaccine-related web sites for parents

Communities, community members or volunteers

One on one interactions

e.g. Vaccine programme promoted door-to-door by programme workers

Group interactions

e.g. Community dialogues between communities and health workers

Mail (postcards, letters, email)

e.g. Influenza vaccine promotion through mass mailing campaign

Phone-based (calls, hotlines, SMS)

e.g. Phone service with vaccine information for citizens

Device or tool

e.g. Learning modules for school children about vaccination

Audio visual / performance

e.g. TV documentaries about vaccines and related diseases

Printed material

e.g. Posters to encourage people to be vaccinated in the pharmacy

Web-based

e.g. Public laptop at clinic for people to access vaccine info

Media campaign

e.g. Radio, newspaper ads, billboards, town criers

Community event

e.g. Education sessions held at immunisation carnival

Celebrity spokespeople

e.g. Famous athletes serve as ambassadors to reinforce key messages on vaccination

Health professionals

Phone-based (calls, hotlines, SMS)

e.g. Immunisation hotline for health professionals

















Pg 1

TARGET

Communities, community members or volunteers

Inform or educate

One on one interactions

e.g. Hospital education for mothers after birth

Parents or expectant parents

Group interactions

e.g. Group parental education coasi

Mail (postca

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e.g. Ren

immunisation

Audio visual / perfor

e.g. Video presentation

Printed material

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Web-based

e.g. Vaccine-related web sites for parents

One on one interactions

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<u>Health</u> <u>professionals</u>

Phone-based (calls, hotlines, SMS)

e.g. Immunisation hotline for health professionals







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Device or tool

vaccination

information for citizens

e.g. Learning modules for

school children about

e.g. Phone service with vaccine











Health

SMS)

professionals

(calls, hotlines,

e.g. Immunisation

hotline for health

professionals

Phone-based

Pg 1

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Phone-based (calls, hotlines, \$\infty\$ e.g. Vaccine information phone parents

Device or tool

e.g. Refrigerator magnets with immunisation schedule

Audio visual / performance

e.g. Video presentation to parents

Printed material

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Web-based

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Pg	2

TARGET

	ry z	IARGLI				
		Parents or expectant parents	Communities, community members or volunteers	Health professionals		
	Remind or recall	One on one interactions e.g. Parent reminded about child's next vaccination at clinic		One on one interactions e.g. Nurses checks for immunisation status at every visit		
P		Mail (postcards, letters or email) e.g. Reminder letter mailed to parents before next appointment		and verbally prompts doctor Device or tool e.g. Point of care reminders for		
U R P		Phone-based (calls, hotlines or SMS) e.g. Phone call notifying parents of missed vaccine dose		physicians		
0 S E		Device or tool e.g. Refrigerator magnet containing date of next vaccination				
	Teach skills	Training in how to communicate/ provide education to others e.g. Health visitor at child health clinic offered suggestions for mother about how to communicate about vaccination with her child to reduce stress Parenting skills programs e.g. Home visits to teach parenting skills and child health	Training in how to communicate/ provide education to others e.g. Teachers taught to focus teaching on child survival and development topics	Training in how to communicate/ provide education to others e.g. Peer training for nurses about how to provide education to parents and motivate them to immunise		

















Pg 2

Parents or expectant parents

Mail (postcards, letters or email)

<u>pfessionals</u>

Remind or recall

One on one interactions

e.g. Parent reminded about child's next vaccination at clinic

Mail (postcards, letters or email)

e.g. Reminder letter mailed to parents before next appointment

Phone-based (calls, hotlines or SMS)

e.g. Phone call notifying parents of missed vaccine dose

Device or tool

e.g. Refrigerator magnet containing date of next vaccination

Teach skills

S

Training in how to communicate/ provide education to others

e.g. Health visitor at child health clinic offered suggestions for mother about how to communicate about vaccination with her child to reduce stress

Parenting skills programs

e.g. Home visits to teach parenting skills and child health

e.g. Reminder letter mailed to parents before next appointment

ne interactions

urses checks for immunisation status at every visit and verbally prompts doctor

Device or tool

e.g. Point of care reminders for physicians

Training in how to communicate/ provide education to others

e.g. Teachers taught to focus teaching on child survival and development topics Training in how to communicate/ provide education to others

e.g. Peer training for nurses about how to provide education to parents and motivate them to immunise

















Pg	2

TARGET

		Parents or expectant parents	Communities, community members	Health professionals
PURPOSE	Remind or recall	One on one interactions e.g. Parent reminded about child's next vaccination at clinic Mail (postcards, letters or email) e.g. Reminder letter mailed to parents be next appointment Phone-based (calls, hotlines or SMS) e.g. Phone call notifying parents of missed vaccine dose Device or tool e.g. Refrigerator magnet containing date of next vaccination	Device or tool e.g. Point of care reminders for physicians	One on one interactions e.g. Nurses checks for immunisation status at every visit and verbally prompts doctor Device or tool e.g. Point of care reminders for physicians
	Teach skills	Training in how to communicate/ provide education to others e.g. Health visitor at child health clinic offered suggestions for mother about how to communicate about vaccination with her child to reduce stress	Training in how to communicate/ provide education to others e.g. Teachers taught to focus teaching on child survival and development topics	Training in how to communicate/ provide education to others e.g. Peer training for nurses about how to provide education to parents and motivate them to



child health



e.g. Home visits to teach parenting skills and

Parenting skills programs











immunise



Pg	2
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	Pg Z			
	_	Parents or expectant parents	Communities, community members or volunteers	Health professionals
PURPOSE	Remind or recall	Mail (postcards, letters e.g. Reminder letter mail next appointment Phone-based (calls, e.g. Phone call notifying vaccine dose Comme eduction e.g. Teach children develop	ning in how to unicate/ provide cation to others there trained to teach a about survival and ment topics such as vaccination	One on one interactions e.g. Nurses checks for immunisation status at every visit and verbally prompts doctor Device or tool e.g. Point of care reminders for physicians
	Teach skills	Training in how to communicate/ provide education to others e.g. Health visitor at child health clinic offered suggestions for mother about how to communicate about vaccination with her child to reduce stress Parenting skills programs e.g. Home visits to teach parenting skills and	Training in how to communicate/provide education to others e.g. Teachers taught to focus teaching on child survival and development topics	Training in how to communicate/ provide education to others e.g. Peer training for nurses about how to provide education to parents and motivate them to immunise



child health















Pg 3

		TARGET		
		Parents or expectant parents	Communities, community members or volunteers	Health professionals
	Provide support	One on one interactions e.g. Home visits to support first time parents on issues including decisions surrounding vaccination		
		Group interactions e.g. Biweekly parent support groups		
P U R		Phone-based (calls, hotlines or SMS) e.g. Monthly support calls from a family resource specialist		
P 0 S		Web-based e.g. Support between parents via online chat forum		
E	Facilitate decision making	Decision aids e.g. Parents are sent a decision aid booklet before an appointment		Decision aids e.g. Clinical decision support tool for physicians to decide whether to administer influenza vaccine

















Pg 3

TAR Parents or expectant parents Com ssionals One on one interactions e.g. Home visits to support One on one interactions **Provide support** e.g. Home visits to support first time first time parents on issues parents on issues including decisions including decisions surrounding vaccination surrounding vaccination **Group interactions** e.g. Biweekly parent support groups Phone-based (calls, hotlines or SMS) e.g. Monthly support calls from a family resource specialist Web-based e.g. Support between parents via online chat forum **Decision aids Decision aids Facilitate** e.g. Parents are sent a decision aid booklet e.g. Clinical decision support decision making before an appointment tool for physicians to decide whether to administer influenza vaccine

















Pg 3

	_	TARGET		
		Parents or expectant parents	Communities, community members or volunteers	Health professionals
PURPOSE	Provide support	Phone-based (calls, hotling e.g. Monthly support calls from resource specialist e.g. de	Decision aids Parents are sent a ecision aid booklet ore an appointment	
	Facilitate decision making	Decision aids e.g. Parents are sent a decision aid booklet before an appointment		Decision aids e.g. Clinical decision support tool for physicians to decide whether to administer influenza vaccine

















Pg 4

			TARGET		
		Parents or expectant parents	Communities, commu	unity members or	<u>Health</u> <u>professionals</u>
	Enable communication	Interpreters e.g. Employment of bilingual staff and translation of vaccine information			
P U R P O S E	Enhance community ownership	Program delivery e.g. Community mother supports and educates mothers in travelling community	e.g. A prominent member of a community is chosen to act as a vaccination spokesperson Community input e.g. Focus groups to seek recommendations from the community about how to better serve the community	e.g. Village chief enlisted to help implement vaccine program Community coalition e.g. Community run coalition plan and implement vaccine program Partnership building e.g. Partnerships with local organisations i.e. churches and child care	

















Pg 4

Enhance

community

ownership

Parents or expectant parents

e.g. Employment of bilingual staff and translation of vaccine information

Interpreters

Health professionals

Enable communication

Interpreters

e.g. Employment of bilingual staff and translation of vaccine information

Program delivery

e.g. Community mother supports and educates mothers in travelling community

Local opinion leaders

e.g. A prominent member of a community is chosen to act as a vaccination spokesperson

Community input

e.g. Focus groups to seek recommendations from the community about how to better serve the community **Program delivery**

e.g. Village chief enlisted to help implement vaccine program

Community coalition

e.g. Community run coalition plan and implement vaccine program

Partnership building e.g. Partnerships with

e.g. Partnerships with local organisations i.e. churches and child care

















Pg 4

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		TARGET			
		Parents or expectant parents	Communities, comm volunteers	nunity members or	<u>Health</u> <u>professionals</u>
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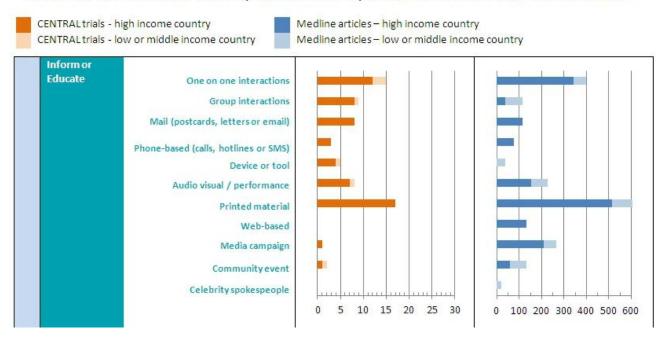




Evidence map



The 'Communicate to Vaccinate' taxonomy: interventions to improve communication about childhood vaccination



- 9% of trials conducted in LICs (light bars) v. 91% in HICs (dark bars)
- Reminders have been heavily covered in trials (HIC)
- Interventions to "enhance community ownership" are used frequently in LMICs but are supported by little trial evidence















Using the taxonomy



• The taxonomy:

- Clarifies the key purposes and features of interventions
- Introduces a common language of communication interventions in the vaccination field
- Assists with the conceptualisation of communication as an intervention in its own right

• It can be used to:

- Prioritise future research
- Incorporate vaccination communication into guidelines or guidance
- Help programme managers map interventions they are delivering (currently developing versions with country-specific examples)















Current limitations and future development



- Evidence map is static (a snapshot in time) and only represents results from two databases
- The map could be developed and used in the future to help build consensus on intervention content and delivery issues
- COMMVAC 2 project will build on the taxonomy
 - Interventions used in mass campaigns (SIA, PIRI, NID)
 - Context and implementation issues















Questions for discussion



- Can you think of any situations in your own work where the taxonomy could be used?
- What kinds of additional information would you like to see included alongside the taxonomy to help decision makers as they consider communication interventions for childhood vaccination?













