# DOVE (DELIVERING ORAL CHOLERA VACCINE EFFECTIVELY) PROJECT SUSTAINABLE CHOLERA SURVEILLANCE FOR CAMEROON

Second Restitution Seminar, Yaoundé Central Hospital
December 04, 2014.









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#### **Summary**

The project "sustainable cholera surveillance for Cameroon" is a part of the DOVE project. It is a research project implemented in the Far North region of Cameroon with the aim of identifying effective cholera surveillance methods for resource-limited settings. As previewed in the research plan, the second phase progress report was presented in a seminar organized by the Division of Health Operations Research with the collaboration of M.A.SANTE on December 4, 2014 at Yaoundé Central Hospital.

The objective was to discuss the results of the first 12 months implementation of the project and recommendations which could help to improve the response against the cholera epidemic that started in the Far North Cameroon since April 2014. The seminar was presided over by Professor Koulla Shiro Sinata, secretary General of Ministry of Health. A total of 30 participants attended the seminar including representatives of the following Departments of the ministry of health: Division of health Operations Research, Department of Disease Control, Department of health promotion, Directorate of family health, Directorate of health care organization and health technology; Littoral regional delegation of Public Health; M.A SANTE; University of Dschang; and National Institute for Research on HIV/AIDs. All the 9 presentations in the agenda were made, each followed by a discussion session.

Main recommendations included: (1).the department of disease control should take necessary measures to organize a vaccination campaign in order to reduce the burden of the current cholera outbreak in vulnerable populations like Darak in the MADA health district; and (2).to draw the attention of health authorities on the weaknesses of the health system by presenting the results of the study entitled "The status of health facilities preparedness for cholera outbreak in Far North region of Cameroon; August 2014" in the presence of the Minister of Health.



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#### Introduction

The project "sustainable cholera surveillance for Cameroon in being implemented in 11 health facilities belonging to 4 health districts of the Far North and 4 health districts of littoral regions of Cameroon. The objective of this project is to identify effective cholera surveillance methods for resource-limited settings through clinical and environmental surveillance. The surveillance started in September 2013 in the Far North region and August 2014. In the research planned, a restitution seminar is previewed to take place every six months or in case of an outbreak to present the progress in achieving the objectives and milestones to the Cameroon Ministry of Health and to key actors involved in Cholera control in Cameroon.

A cholera epidemic started in Mogode health district of the Far North region by April 2014. Despite the numerous interventions put in place, the epidemic continued to expand with about 15xxx health districts affected involving more than 3346 cases and 183 deaths. Given this situation



Revising the agenda prior to the start of the seminar



Welcome speech from the head of DROS



Opening speech from Prof. Koulla Shiro Sinata, SG of MOH



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M.A.SANTE was asked by the ministry of health to present the progress report of the project in the Far North. The objective was to discuss the results of the first 12 months implementation of the project and recommendations which could help to improve the response against the current cholera epidemic.

#### **Participants**

The seminar was attended by a total of 30 participants presided over by the secretary General at Ministry of Health and representatives of the following organs: Division of health Operations Research, Department of Disease Control, Department of health promotion, Directorate of family health, Directorate of health care organization and health technology, Littoral regional delegation of Public Health, M.A SANTE, University of Dschang, National Institute for Research on HIV/AIDs and. The attendance list is attached.

#### **Objective**

The objective was to discuss the results of the first 12 months implementation of the project and recommendations which could help to improve the response against the cholera epidemic that started



The Secretary general, head of DROS, head of clinical research unit, and local principal investigation of the project.



The first presentation



Overview of the hall during discussion



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in the Far North Cameroon since April 2014.



Head of the division of health operation research and the SG of MOH

#### Methodology

In the course of the seminar, the method used was oral presentations on PowerPoint followed by questions, propositions, discussions, and recommendations. The seminar started at 9 AM with the registration of participants, followed by a welcome Speech from the Head of DROS. There was also a word from the Secretary General of the Ministry of Public Health. Events of the seminar went on strictly as planned in the agenda (agenda enclosed). Table below summarizes the main questions that raised and the were recommendations that were taken for each presentation.





A presentation



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Presentation	presenter	Key points high-lighted	Question Raised	Recommendations
Sustainable cholera surveillance for Cameroon: key results of the first year implementation	Dr Ateudjieu Jerome  MD, MPH, Clinical Research Unit, Division of Health Operations Research, Ministry of Public Health, PI of the project "Sustainable Cholera Surveillance for Cameroon"	<ul> <li>By October 2014, 1425 cases had been recruited including 488 control subjects.</li> <li>The epidemic touched 2 study sites of the project (Darak and Blangoua) and 180 cases were recorded with 7 deaths.</li> <li>The project investigated 72 suspected cases of cholera and 59 were confirmed.</li> <li>1013 environmental samples were collected from 42 sites; 242(24%) presented aspects of vibro cholera and 1 was positive for vibro</li> </ul>	-should environmental surveillance be included in investigation of outbreak?  -How to investigate and respond to cross- border outbreaks?  -Can the results of the study be inferred in the whole lake Chad area?	Include environmental surveillance during outbreak investigations.  Telephones and TV are available in almost all household and should be considered as best communications channels for cholera related messages.  Telephones and TV are available in almost all household and should be considered as best communications channels for cholera related messages.  Tenable inter-country communication by organizing a seminar involving neighboring countries.  The characteristic of study sites are similar to those of other health facilities around Lake Chad basin and therefore the results can be applied in whole the area.



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		cholerae o1(the well was closed		-Organize a restitution
		later by health authorities when		seminar to share these results
		they were informed)		with districts and regions
				involved.
				-Do surveillance for considerable long period of time in order to clearly identify risk factors.
				identify risk factors.
The status of health	Miss NOUETCHOGNOU	-Less than half of health facilities	What is the right	- Present results of this
facilities preparedness for cholera outbreak	Julienne Stephanie	included cholera control in their action plans and 1/5 of those who planned	time for the assessment	study in the presence of the
in Far North region of	MPH-Epidemiology, Research Assistant and	budgeted for it	of health facility	Minister of health.
Cameroon; August 2014	Monitor at M.A.SANTE	-Guidelines for case management was	preparedness?	-extend this study in the
		not present in about 2/3 of the health facilities	What are	Littoral region (Douala), the
		Tacinica	characteristics of health	second region affected by



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		-16% of the health facilities did not	districts or region in	cholera outbreaks.
		have a nurse and about 70% of them	which this assessment	
		had not received any supervision on		
		cholera control and epidemic response	should be conducted?	
		since the beginning of 2014		
		-Principal medicaments for the		
		management of case that is: ORS,		
		ringer, catheter and doxycycline were		
		not present in 40%, 50% 38% and 38%		
		of the health facilities respectively.		
		-A water source was not present in 20%		
		of health facilities. And about 18% of		
		them did not have a toilet		
Contributions of the Dr A	Ateudjieu Jerome	-A training workshop was organized in		-The actions of the project
DOVE project in MD,	, MPH, Clinical Research	Maroua from 20 - 23 august 2014 to		were appreciated and the



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responding to the	Unit, Division of Health	improve on preparedness and response	team was	encoura	ged to
current cholera	Operations Research,	to cholera outbreak. Three field visits	continue	with	their
outbreak in the Far	Ministry of Public Health, PI	were made to affected areas. Firstly in	contribution	in	cholera
North.	of the project "Sustainable	Bourrha; secondly in Bourrha, mogode	control.		
	Cholera Surveillance for	and Hina; and the thirdly in Darak of			
	Cameroon"	the Mada health district. During these			
		visits, personnel were train on cholera			
		epidemic surveillance and how to use			
		dipstick; they were further supplied			
		with dipstick rapid tests, ORS and stool			
		bottles. Clinical and environmental			
		Samples were also collected and tested			
		-The results of clinical and			
		environmental sample testing			
		permitted us to identify a			
		contaminated well in Darak and the			
		information was immediately			
		communicated to the health			



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		authorities and the well was closed.		
Thousand the iting your	NAv Valuus Mautia Naisakia	400/ of disrupced potionts had taken a	Do the people in the	Conduct a suglitative
Therapeutic itinerary	Mr. Yakum Martin Ndinakie,	-40% of diarrheal patients had taken a	-Do the people in the	-Conduct a qualitative
of patients with	MPH-Epidemiology, in	treatment at home before visiting a	community know the	study to identify barriers to
diarrhea in the	charge of Follow-up of	health facility,		
Cameroon Lack Chad	activities and supplies at	-Delay at home and living more than	importance of rapid take	health care access.
area	M.A.SANTE	5km away from the health facility	of ORS in cases of	Identify stretonics to
		contributed to aggravate the situation	diarrhea?	-Identify strategies to
		of the patient upon reception in the		make ORS readily available in
		health facility.	Is ORS accessible to the	the community.
			community?	-include the acceptability
				,
			Can the study	of ORS in the next
			provide answers to why	investigation on therapeutic
			people refuse to take	
			ORS in certain	itinerary of diarrheal patients.
			communities of the Far	
				-Sensitize populations on



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			North region?	rapid take of ORS at the level of the community.
Access to water and sanitation of patients with diarrhea in the Cameroon Lack Chad area	Mr. EBILE Akoh Walter MPH-Epidemiology, Data Manager at M.A.SANTE	2/5 of the patients were using a potentially contaminated water source and only 1% reported that they treat water before use.  1/5 of the patients did not have a toilet, 20% affirmed that they wash their hands after using the toilet and only 30% wash their hands while cooking meals.	Can recommendations be implemented without community participation	-Conduct qualitative study to know why there is poor practice of WASH.
Risk factors for diarrhea Cameroon Lack Chad area	Mr. Djouma Nembot Fabrice, MPH-Epidemiology, Department of Biomedical sciences, University of Dschang	-About 77% of deaths due to cholera- like syndrome occur in the community, -When compared with health facility base treatment, Home based treatment during cholera by auto medication increases the risk of death	-Are treatment kits available in the community?  What was the	-Conduct a qualitative study to identify barriers to health care access.



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		16 times while treatment at the community center doubles this risk.	difference between community treatment centers and health facility in terms of cholera treatment?  What were reasons explaining cholera deaths in health facilities?	
Cholera preparedness from central to district level: when and how should the immunization be part	Dr Ateudjieu Jerome  MD, MPH, Clinical  Research Unit, Division of  Health Operations  Research, Ministry of Public  Health, PI of the project	-it is not possible to predict cholera outbreaks -Neighboring regions and districts to an area in epidemic or that has history of cholera epidemic must start preparedness to reduce the mortality and morbidity Associated.	resources for immunization campaign	The ministry should call for a preparatory meeting of actors when drafting the long term and annual action plan for cholera control.



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"Sustainable Cholera	-Preparedness should be done at all	there is no outbreak?	The department of disease
Surveillance for Cameroon"	levels of the health system. It should		control should write present a
	include the following in the action plan:	When drafting the action	note to the MOH to defend
	epidemiological surveillance, training	plan, how to estimate	why an immunization
	supervision and motivation of		campaign against cholera
	personnel, sensitization of the	expected cases of	should be organized in Darak
	population, purchase and	cholera	
	prepositioning of consumables and		
	medicaments	How to improve the	
		coordination of key	
	-In areas with insecurity and limited	actors involved in the	
	access to care, this preparedness	fight against cholera?	
	should be accompanied with a request		
	to organize a vaccination campaign		
	against cholera		



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#### **Conclusion and key recommendations**

The seminar was successful in terms of organization and attainment of its objectives. Events all went on as planned in the agenda. The seminar ended with a closing remark from the director of the Division of health operations research and there was Lunch.

#### Recommendations

The following recommendations were made after presentation and discussion:

- To present the results of the study entitled "The status of health facilities
  preparedness for cholera outbreak in Far North region of Cameroon; August
  2014" in the presence of the Ministry of Health.
- 2. Due to the limited access of cholera cases to health facilities in some health areas (islands; Darak, Naga, Tchika, Bargaram, Blaram, Kofia) in the MADA health district, the department of disease control should take necessary measure to organize a vaccination campaign in the MADA health district; Technical assistance of the DOVE team and EPI may be solicited.
- 3. The project should insert as one of its objectives to evaluate efficiency of community base epidemiological surveillance of cholera and diarrhea.
- 4. The project should conduct a qualitative study to understand the behavior of communities with regard to the therapeutic itineraries during diarrheal episodes, utilization of water and hygiene methods.
- 5. The ministry should harmonize case reporting, investigating and linelisting for the collection of data of epidemiological surveillance of cholera
- 6. To train the personnel of health regions in data management (the DOVE project can do this).
- 7. At the end of the project, the results should be shared to all actors involved in the fight against cholera and diarrheal diseases, promotion of access to potable water, to health authorities, communal and cross-border authorities of the zone of research.



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8. Telephone and television should be prioritized as channels for passing health information to the community.

#### **Attachments**

- Agenda of the seminar
- Attendance list