Polio Outbreak Response Review Lebanon 31August- 04 September 2015

WHO/UNICEF organized a review for the Middle East Polio outbreak response during the period 31st August – 4th September, 2015. Seven international officials participated in this review;

- Dr. Faten Kamel, WHO Consultant (team leader)
- Dr. Tarek Abdelrahman Elsayed, Medical Officer, WHO/EMRO
- Dr. Nasr Tantawy, WHO Consultant
- Dr. Ahmed Ramadan, WHO Consultant
- Dr. Usama Salama, WHO Consultant
- Dr. Seifeddine Saleh, WHO Consultant
- Ms. Marwa Kamel, UNICEF Consultant

Background

Lebanon reported the last 2 indigenous cases in 1994. Two importations occurred in 1995 and 2003 with no further spread. In response to the Middle East polio outbreak and considering the ongoing humanitarian crisis and the vast population movement there, a comprehensive multi-country outbreak response was initiated in November 2013. Lebanon is one of the eight countries included in the Response (Syria, Lebanon, Jordan, Iraq, Turkey, WB&G, Egypt and Iran).

<u>O</u>	<u>bjectives of the review were to assess</u>
	Implementation of Phase II recommendations and Phase III plans
	AFP surveillance sensitivity and quality
	Adequacy of immunization activities (Routine and SIAs)
	Communication and Social Mobilization activities
	Partners' coordination for the Outbreak Response
	To make specific recommendations on how to maintain Lebanon polio free
M	<u>lethodology</u>
	The mission started with Desk Review and full briefing by MoPH officials.
	Field Visits (Beirut, Mount Lebanon, Baalbek, Zahla, Tripoli, Akkar) were made.
	Meetings with EPI team, ESU, WHO, UNICEF, UNHCR and NCC were conducted.
	All components of Outbreak Response activities were reviewed including response to recommendations of last review; current situation and implementation of PHASE III activities which include;
	 Supplementary Immunization activities
	 Routine Immunization
	 AFP Surveillance
	 Communication
	 Coordination among all partners
	Findings were shared and recommendations were formulated.

Findings and Recommendations

i. GOVERNMENT COMMITMENT AND PARTNERS' COORDINATION

The Government continues to lead the response with partners' support from WHO,
UNICEF, UNHCR, NGOs and the Private Sector.
Funding: Partners provided funds for SIAs. Government is providing support for
surveillance with WHO support for active surveillance covering the costs of hiring 8
surveillance officers and related transport.
Sharing of information between partners including between WHO and UNICEF has
improved. Reporting from the private sector especially on RI is still an issue.

II. SUPPLEMENTARY IMMUNIZATION ACTIVITIES (SIAs)

Lebanon implemented 11 campaigns as a response to polio reappearance in the Middle East in which more than 4 million OPV doses were administered. The target for NIDs was close to 600,000 under-5 children including both Lebanese and non-Lebanese. Mop-up activities

were implemented in Phase II and Phase III targeting High Risk areas with most vulnerable populations.

Month	Type	Number reached	IM
November 2013	NID	580,770	
December 2013	NID	589,054	90
March 2014	NID	492,706	
April 2014	NID	549,768	78
July 2014	Mop-up	120,142	
August 2014	Mop-up	115,424	
September 2014	Mop-up	126,780	
October 2014	NID	516,967	73
November 2014	NID	556,814	83
March 2015	Mop-up	384,888	71
April 2014	Mop-up	421,691	78

SIAs Findings

- ☐ The high-risk approach was followed in planning and implementation of Phase III SIAs
 - O Mapping and targeting high risk areas was done in March & April 2015: Identification of High risk areas was done using vulnerability maps and adding areas with poor vaccination coverage. Vulnerability is decided using a composite index of concentration of vulnerable Lebanese population (living on less than USD 4/day) and registered refugees. The most vulnerable quintile amounts to 225 localities including 86% of registered refugees and >66% of vulnerable Lebanese population. The target for the mop-up was 180,000 children, but the reach was much higher as all public schools received a decree from MOE to comply with the campaign, some newly displaced Syrians were not accounted for during planning and some Qaza Physicians decided to vaccinate some new areas that they considered vulnerable. Each vaccinated child received a signed card as proof of vaccination with a blank space over the date of the next vaccination to remind the parents of the next campaign. These cards were the basis of verification of vaccination by independent monitors
 - o Effective partnership with community entities:
 - □ High coverage in Informal Settlements (MoPH through BEYOND/UNICEF): In Lebanon, there are no camps for Syrian refugees. Displaced Syrian population lives in different host communities, in Informal tented Settlements (IS) and Collective Shelters (CS). Not all of them are registered with UNHCR (about 1.4 refugee registered from all ages and additional estimate of about half a million). UNHCR supported health facilities are providing vaccination through fixed sites but the Vaccination of IS, is carried out tent to tent by a local NGO, Beyond, which is supported by UNICEF. Lebanon has a total of 2512 ISs with 34,059 tents and 201,379 total population living in them. The *Shaweeshs* (the local leaders of each IS) were sensitized and thus extremely helpful in organizing campaigns which led to excellent coverage. Total under-5 children covered by NGO Beyond is 64,254 in ISs and 57,870 in CSs. The main concern and challenge was to reach Syrian population in host communities who was spread all over the

	country. There are, as well, financial and acceptance access and use of health facilities/services by them	•
	□ Vaccination in schools preceded by communication	
	interactive dialogue and Symbolic prizes on polio to schools.	
	☐ Innovative social mobilization activities (use of we and municipalities)	orship places, schools, hospitals
	☐ Using UNHCR data base; SMSs to registered Sy dissemination through UNHCR refugee outreach v	olunteers.
	Increasing involvement of private physicians in rumors against OPV (role of pediatric society) partnership with the private sector. Some issues participation of the private sector despite free supsometimes advising against repeated vaccination. I reach the private physicians (direct contact, meetings and regular information sharing with (LPS), through polio certification committee, Miphysicians, mass and social media and daily follows These initiatives paid off where the proportion private sector has markedly increased from 2% in 2014. Similarly the proportion of children who aprivate physician advice was significantly reduce October. Private physicians as a source of information 2% in April to 11% in October.	there is evidence for better previously noted included low oply of vaccines by MOPH and Different strategies were used to joint WHO-UNICEF-MOPH Lebanese Pediatric Societies nistry of Education and school ow-up by MOPH during SIAs). of children vaccinated at the April 2014 to 24% in October missed vaccination because the d from 39% in April to 2% in
	Adopting additional strategies to reach high risk populatio Vaccination at the 4 cross-border check points, a registration centers (Beirut/Mt Lebanon-Tripoli-Zahle at the border reached 80,000 in 2014 and 28,698 in centers in 2014 and 72,431 to date in 2015. 53,00 infected countries were vaccinated on arrival to the air or Increase house to house vaccination	t the airport and at UNHCR and Tyre): number vaccinated a 2015. 180,000 at registration of from all ages coming from
	Coping with increasing target figures and securing enoug chain equipment: In light of unpredictability of electrical 850 vaccine fridges of alternative power (280 solar dis PHCC, SDCs, CAZA Physician's offices, 580 sibir frid constructing 3 cold rooms in the central warehouse of MO	supply, UNICEF provided over tributed and being installed in ges for dispensaries as well as
SI	IAs Remaining Issues	
	Sub-optimal quality of micro-plans There are no deta components/maps or clear supervisory plans or unifor operations (use of finger markers or reporting from private	m policy for some campaign
	Need to strengthen supervision during campaign impleme	ntation

- Absence or delayed reporting of PCM data jeopardizing proper utilization of its findings. By the time of the review, independent monitoring: results were not released though monitoring was carried out through the Faculty of Health Sciences at La Sagesse University and the sample included 2,775 children under 5 years of age, regardless of their nationality, residing in the targeted Lebanese communities and 525 Syrian children hosted in the ISs. Preliminary data shows that awareness about the campaign was higher among Syrians in ISs compared to community sample (92% compared to 78%). Same for coverage, the overall April 2015 polio vaccination coverage was 78% (n=2,164), among the community residents and 92% (n=483) among the Syrians hosted in ISs.
- ☐ Reaching the unregistered Syrians is still an issue needing governmental innovative strategies.

SIAs Recommendations

- ☐ Mop-ups in High Risk areas/populations should continue as long as the threat of polio continues
- ☐ Quality and reach of SIAs should be ensured through:
 - o Continuous Update of risk assessment and mapping
 - Improved and standardized microplanning with specific focus on high risk planning.
 (Technical support)
 - o Continue and expand close coordination with all stakeholders
 - o Innovation strategies to reach unregistered refugees in the community
 - o Ensuring Independent Monitoring which could be biased to high risk areas/population, with proper and timely utilization of monitoring data to improve quality of sub-sequent campaigns

III. AFP SURVEILLANCE

The AFP surveillance system is implemented in Lebanon since 1998. The main issues detected in previous reviews included suboptimal/borderline indicators, missing some facilities serving Syrians by the active surveillance network, issues with implementation of active surveillance, quality of visits, profile of staff conducting the visits, transport, monitoring and supervision, suboptimal information sharing and feedback and pediatricians focusing on diagnosis rather than syndromic approach.

As indicated below, great improvement was noted during the current review. Lebanon achieved the target for most indicators for the first time in the last few years.

AFP Surveillance Findings

Structure/Personnel/Policy

- ☐ There is a well-established AFP surveillance system with wide network and clear structure within the epidemiologic surveillance programme at central (Separate from EPI), Mohafezat (being developed for Mt. Lebanon) and Caza levels.
- □ Dedicated focal point for AFP (since one year) and appointed 8 AFP nurses (in batches Sept 2014, Nov 2014) one for each Mohafaza <u>representing a positive improvement to support the surveillance officers.</u>

	Central staff met and Nurses are well versed, trained and committed (Clear TOR), supporting Active Survvveeeillance, detailed case and area investigation, filing and data entry)
	Surveillance responsibilities are provided by central team for Beirut.
	Contact focal points identified in hospitals (however with variable qualification and knowledge, some in need of refresher training)
	The documentation of the activities was variable regarding plans but complete forms
	Adequate logistics at different levels, computers and transport
	New AFP Guidelines developed, printed and distributed to surveillance staff (not yet to FP and Hospitals). Guidelines are comprehensive and consisting with global and regional policies
	AFP SOPs under revision to include new definitions, concepts and new Outbreak Response SOPs.
	Hot case concept clear and contact sampling is done (hot cases, cases with inadequate stools and 6 border Cazas)
	New NEG is to be established, we could not meet the potential members (urgently needed one case pending more than 90 days)
	mmunication/Coordination/Feedback and Supervision
	There is continuous communication between different levels (phone, e-mails, adhoc visits).
	Bulletin produced monthly and published on web-site.
	Limited Supervisory visits (do not include checklist and not documented)
	Adhoc meetings involving Mohafezat and caza staff with no minutes
	Feedback on samples results is send to treating physicians, through hospitals focal points and Mohafezat/caza staff
	Cross notification is done between Mohafezats and with Syria
	Need for direct communication with Jordan Laboratory and to ensure timely results
ΑF	P case investigation, documentation and follow up
	There is significant delays in reporting of cases by private physicians and even in hospitals.
	Private physicians do not report cases from their clinics/ confusion about what to report (syndromic approach/GBS?)
	Nearly half the cases were detected by Active Surveillance indicating reluctance of
	hospitals and physicians to report spontaneously
	GBS rate is 1.1/100,000 under 15 (indication of good AFP cases)
Ze	ro Reporting/Active Surveillance
	ere is clear distinction between zero reporting and active surveillance
	Zero reporting:
	 Very wide network of Zero reporting including hospitals, public and private HF, PHCC, dispensaries as well as some MMUs in some Qazas. Reports are computerized and monitoring is done.
	 Responsibility of focal points
	 In some areas done from medical records without checking with physicians and wards. In few by phone not documented
	 Efficient System for monitoring at central level

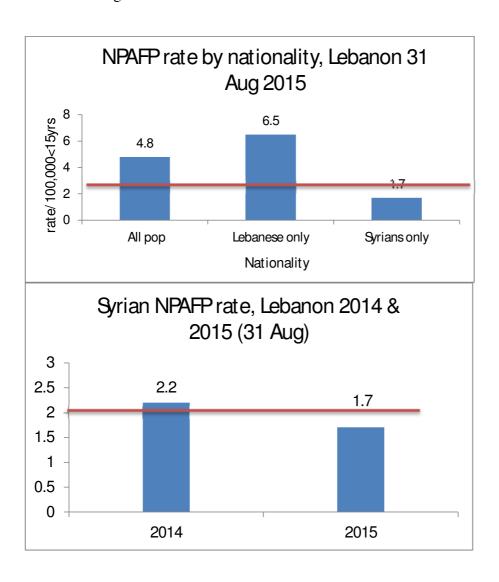
☐ Active surveillance:

- AS network expanded from 52 hospitals (both public and private) in 2013 to 90 in 2014 and currently reached 112 in 2015, with nominated Focal Points, List of reporting sites continuously updated, prioritization done
- Supported by the 8 AFP nurses and Casa surveillance officers
- Resumption of AS in Beirut (in five hospitals)
- Most hospitals that treat Syrian refugees are included among active sites
- No major logistic issues were observed
- Quality of visits: have improved with indication of register reviews. There is still
 room for improvement by visiting and checking all relevant departments. the quality
 differs between Governorates
- There is no supervision on Active visits and is highly needed.
- Monitoring completeness of Active visits is now done in addition to Zero reporting, dispensaries and UNHCR facilities, but still AS monitoring and supervision is weak at the local level.
- Introduction of community surveillance: Community surveillance is in process using key informants from communities (detected 3 cases in 2015)
- High commitment from physicians for reporting of AFP cases. Orientation sessions
 were implemented. Still more is needed with physician awareness and distribution of
 print material.

Surveillance Indicators

Ш	The population rigures were adjusted to include Syrian population, based on registered
	refugee's figures, this makes indicators more realistic and avoid overestimation. The
	number of under 15 population used in surveillance is 2,147,231 including Lebanese
	(1,354,321) and Syrian (792,910)
	There is increase in number of cases reported (68 up to end August compared to 50 for
	2014)
	Sensitivity markedly improved (2.16 in 2013 -> 2.65 in 2014 -> 4.34 annualized 2015).
	All province have non-polio AFP rate >2
	Non-polio AFP rates are calculated by nationality. Still rate is below 2 among Syrians (at
	the time of the review). However, no identification of cross-border cases that ESU is not
	aware of. UNHCR and other NGOs dealing with Syrian refugees have been
	communicated and trained on AFP case definition. Medical centers that treat Syrian
	refugees have been contacted and trained
	Improvement of stool adequacy at national level (45.45 % -> 70% -> 88.33 %) and all
	governorates except Nabatya.
	11 out of the 68 cases had inadequate specimens (delays in reporting by hospitals and
	lack of cooperation by parents).
	Delays in case detection and notification (% cases notified within 7 days of onset is low
	in South, Nabatiye and Bekaa.
	Timely investigation of cases once reported

- □ Problems in sending the samples to the Laboratory: problems were encountered in sending the samples to VACSERA Cairo. Now samples were shifted to Jordan. The Laboratory isolated NPEV (8%)and SL (2%)..
- □ Data management and data analysis is done at national level. Basic mapping and analysis needed at governorate and lower level



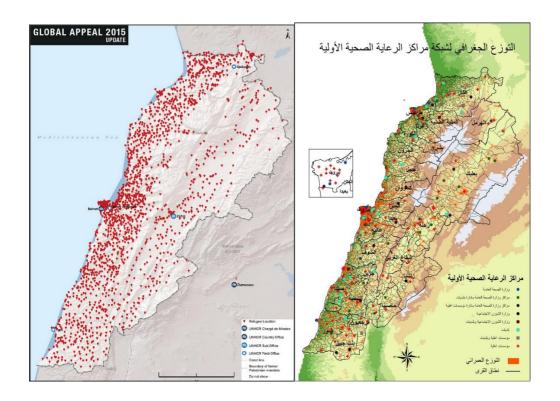
				AFP classification	fication				Survei	Surveillance indicators	cators			Ē	Immunity profile	file
PROVINCE	Year	Annualized Est. Population < 15 yrs	AFP	Pending	Pending> 90 days	Discarded	% Adeq.	NPAFPRate	% notified 9 within 7 days	%INVEST2D P	% in lab within 3 days	% NPEV	% Sabin like	% > 6 m - <60m with 3or moreOPV doses	count of 6 m 1-<60 m with < 3 OPV doses	Count of 6 - <60 m with zero OPV doses
	2013	94,981	3	0	0	3	66.7	3.2	66.7	66.7	0.0	0.0	0.0	100.0	0	0
BEIRUT	2014	105,758	2	0	0	2	0.0	1.9	0.0	100.0	0.0	0.0	0.0		0	0
	2015	72,358	2	0	0	2	100.0	2.8	100.0	100.0	0.0	0.0	0.0		0	0
	2013	257,207	9	0	0	9	33.3	2.3	0.0	100.0	0.0	0.0	0.0	20.0	2	0
BEKAA	2014	380,616	10	0	0	10	50.0	2.6	20.0	100.0	20.0	0.0	10.0	71.4	2	0
	2015	310,782	6	2	0	7	100.0	2.9	66.7	100.0	0.0	0.0	0.0	20.0	1	0
	2013	470,658	12	0	0	12	33.3	2.6	16.7	100.0	0.0	0.0	8.3	100.0	0	0
MONT LIBAN	2014	554,800	17	0	0	17	70.6	3.1	9.07	94.1	11.8	0.0	0.0	60.0	2	0
9	2015	411,750	17	ဗ	1	14	82.4	4.1	88.2	94.1	0.0	0.0	0.0	6'06	0	0
	2013	94,090	1	0	0	1	100.0	1.1	100.0	100.0	0.0	0.0	0.0		0	0
NABATIYE	2014	113,544	4	0	0	4	100.0	3.5	75.0	100.0	0.0	0.0	0.0		0	0
	2015	80,336	10	2	0	89	70.0	12.5	70.0	100.0	30.0	0.0	0.0	100.0	0	0
	2013	390,591	5	0	0	5	80.0	1.3	0.08	100.0	0.0	0.0	20.0	100.0	0	0
NORTH	2014	482,216	12	0	0	12	75.0	2.5	50.0	100.0	0.0	0.0	0.0	33.3	1	0
	2015	333,836	14	2	0	12	100.0	4.2	92.9	100.0	0.0	7.1	0.0	80.0	1	0
	2013	221,494	9	0	0	9	33.3	2.7	16.7	100.0	0.0	0.0	0.0	100.0	0	0
SOUTH	2014	251,550	5	0	0	5	100.0	2.0	80.0	100.0	0.0	20.0	0.0	100.0	0	0
	2015	172,452	8	2	0	9	87.5	4.6	75.0	100.0	0.0	12.5	0.0	100.0	0	0
	2013	1,529,022	33	0	0	33	45.45	2.16	30.3	96.97	0	0	90.9	06	2	0
LEBANON	2014	1,888,484	50	0	0	20	70	2.65	54	86	8	2	2	63.64	5	0
	2015	1,381,517	09	11	1	49	88.33	4.34	81.67	98.33	5	3.33	0	77.78	2	0

<u>R</u>	emaining Issues in Surveillance:
	Sensitivity issues:
	 NP AFP rate is below normal standards among high risk group (Syrians)
	 Deficient reporting of AFP cases from OPD
	 Sub-optimal level of awareness and knowledge (some FP and clinicians)
	Quality issues:
	 Quality of active surveillance visits in some places
	 Supervision needs strengthening and documentation
	Timeliness
	 Late detection, late reporting, sample transport
	Centralized data management.
<u>Sı</u>	rveillance Recommendations:
	Continuation of the new structure and AFP nurses
	Continue and expand the use of Syrian community informants for reporting of AFP cases (UNICEF & UNHCR support)
	Design and conduct well structured essential training course for surveillance officers, AFP surveillance nurses and focal persons. This could be conducted for each region (WHO support)
	Efforts should be done to ensure immediate timely notification of any AFP case: - Raising awareness of clinicians (sensitization sessions, printed material, Pediatric association, Medical societies) on his/her role in immediate reporting
	- Detailed investigation of reasons of delays with subsequent action
	Ensure quality of Active surveillance visits (register review, inclusion of relevant departments, supervision of AS)
	Encourage data analysis at sub-national level which could be incorporated in the essential training.
	Conduct internal surveillance reviews
	Feasibility and initiation of environmental surveillance to be discussed with WHO regional Lab coordinator
	Formulation of NEG
	Establish direct communication with the Jordan Lab for follow up
	Samples kept for more than 72 hours should be kept frozen.

IV. ROUTINE IMMUNIZATION

	There is a well-organized national vaccination programme with strong NGO partnership with MoPH. High level commitment to leadership role and improvement of the system
	 Improved accessibility to RI activities & strong NGO partnering with MoPH Increased number of PHCs with thoughtful geographical distribution across the whole country and Utilization of all vaccination outlets
	Well-established cold chain system
	Plan to Build capacity on Effective Vaccine Management (EVM)
	Independent technical EPI committees
	There is a huge private sector market (different vaccination schedules and no reporting) Efforts are done to improve coordination with private sector (MOPH providing free OPV & MMR)
	Monitoring vaccination status and defaulter tracking – Efforts done at Qaza level (birth records and surveys)
	 Variable level and strategies at facility levels for defaulter tracing
	 Promising computerized program (under development) to monitor vaccination status of children attending PHCs
	 Efforts to ensure RI of Syrian children
	 Provision of RI in IS by MMUs in Bekaa and North (Beyond/UNICEF)
	 Free vaccination services and Subsidized consultation fees to Syrians (UNHCR facilities and some NGOs)
	 Immunization units at UNHCR Registration centers and Border entry points giving polio and measles regardless of age and vaccination status (and direct to UNHCR supported facilities)
	 Vaccination cards issued to facilitate tracking
Re	maining Issues in RI
	Problems in target identification
	No reporting on vaccination from private physicians
	Records standardization and keeping is variable and does not allow program monitoring.
	Out-reach activities and tracking of defaulters follow different methodologies in differen settings
	The challenge of Ensuring high coverage among Syrian population (unregistered, outside IS)

- ☐ There is big difference between official routine immunization figures and WHO/UNICEF estimates (estimates showing 81% coverage)
- ☐ Surveys around some AFP cases pointing to pockets of low coverage.
- □ Wide variation were found between Lebanese and non-Lebanese regarding polio routine vaccination according to the IM survey results in 2013. Those who received 3 or more doses (verified by card) represented 91.8% among Lebanese children in the sample, 88.7% for Non-Lebanese residing in Lebanon for more than 2 years and 66.8% for non-Lebanese arriving less than 2 years ago.
- □ Vaccination profile of non-polio AFP cases is confirming presence of under immunized children
- ☐ Small EPI central team with huge responsibilities so limited supervision



RI Recommendations:

- ☐ Follow up on the electronic application to help identify children for immunization (explore possibility of unique identifier)
- ☐ Work with pediatric societies and Syndicate to identify a suitable mechanism to report on vaccinated children (agree on statistics format and channel for reporting)

Develop standard registers and statistical formats of all program activities, print, distribute and plan for well structured national training for all concerned staff.
Establish a supervisory system with suitable tools
Continue work with partners to identify strategies to locate and immunize Syrian children.
While working on improvement of reporting and until achieved, periodic EPI coverage surveys will be helpful for estimating coverage and monitoring trend

V. COMMUNICATION

Previous reviews showed that Reasons for missing vaccination were mainly related to communication. It also highlighted that The shift from house to house to facility based strategy, the repeated campaigns in a country that has been polio free for long time and where private sector is the primary source of service even for vaccination represents real communication challenges that warranted attention and implementation of a multi-pronged strategy (mass media, sensitization of private sector and schools and with high community mobilization). Involvement of Religious and community leaders, and role of municipalities and district medical officials in mobilization and reaching out to the communities was supposed to be stronger and more organized.

Communication Findings

During the last quarter of 2014 a massive Health communication campaign on polio was
planned and implemented, and was a great source of information to the general public
about the campaigns dates and messages
The formation of the Child Health Mobilizers Network is a great asset for promoting the
campaign dates and messages
The involvement of the private sector physicians to promote the polio vaccination
campaigns was a great achievement and gave a great push to the polio campaigns
The collaboration between MOPH, and MOE showcased a very positive example of successful collaboration between ministries to achieving good results
3 9

The above points led to reducing resistances, tackling misconceptions, barriers and increased the acceptance to vaccination

The 2015 Mop Up polio campaigns used targeted communication at the local level. Part of the activities planned and implemented included Printing and dissemination of Street banners, Posters, and Flyers, Local activations with partners at different governorates including Fun Recreational activities for kids that included polio vaccinations, Media coverage, Religious leaders' involvement and Mega phones involvement. The new MOPH web site, social media outlets, and bulletin are a great venue for sharing MOPH achievements, successes, and lessons learned

Communication Challenges

	Due to the delayed selection of the sites and venerable/high risk areas to be covered by the Mop Up March and April campaigns, it was difficult to ensure proper systematic communication planning for all geographical areas
	Creative ways have helped make use of existing networks of local partners to promote the polio Mop Up campaigns but could not guarantee needed reach or unification across governorates
	Reaching the unreached and the hard to reach is still a challenge and requires a lot of more work. More work needs to be done to ensure reaching the missed children
	Good awareness raising activities was implemented matching with responding to emergencies and time constraints, and less communication for behavior change programs was planned and implemented
Co	ommunication Recommendations
	The decision on vaccination campaign dates needs to ensure allowing time for readiness of the communication plans and interventions on the country level/field office level
	A strong need to have a comprehensive program with pediatricians building on the success of the work done with the syndicates and the pediatricians during 2014
	A comprehensive evidence based strategy and plan for C4D for routine/EPI is highly needed
	Need to plan and implement C4D trainings for field teams, nurses, and outreach staff that do home visits for vaccination to ensure that they posses the right skills to talk to the public and have the right information
	It is highly recommended that communication is observed during the implementation of the EPI/routine /polio campaigns to ensure proper monitoring and evaluation
	MOPH communication team needs to be strengthened and formulated to suit the advanced needs for C4D activities and interventions
	Need for a stronger communication coordination at the central level that could be lead by MOPH communications team, and the UNICEF C4D Team
	More focus needs to be given to IPC and very specific tailored approaches that are evidence based
	Proper and systematic communication monitoring and supervision is an essential component for the success of any future interventions
	Need to develop and disseminate Routine EPI material
<u>Co</u>	ommunication recommendations in Surveillance
	Develop job aids (pocket guides, flow charts, etc) for surveillance teams and health staff to promote notifications of AFP cases
	Ensure that case definition posters are available in all health centers and revise the poster
	to be more attractive, stand out and have simple messages
	Integrate the availability of surveillance communication materials at hospitals and Health
	centers are part of the supervision checklists Present the surveillance guidelines in events for health teams at the governorate level to
	announce for their existence and ensure that health providers are also aware of the importance of the guidelines and their contents
	Introduce AFP to the community to increase the acceptance to collection of samples,
	reduce resistances and approval to the surveillance teams
	Investigate the possibility of using the non traditional tools used to communicate the polic campaigns to the public to also promote the notification of AFP cases

	There is a need to have regular awareness raising plans, trainings, and orientations of surveillance teams, and hospitals teams to AFP Survillance
	Analyze the delays in notifications and accordingly develop plans to address all types of delays
<u>O</u>	VERALL CONCLUSIONS
	I show a final amount of the management of the m
	Lebanon implemented most of the recommendations made by previous reviews and on track with implementing Phase III plans