

Public Health Emergency Operations Center Handbook

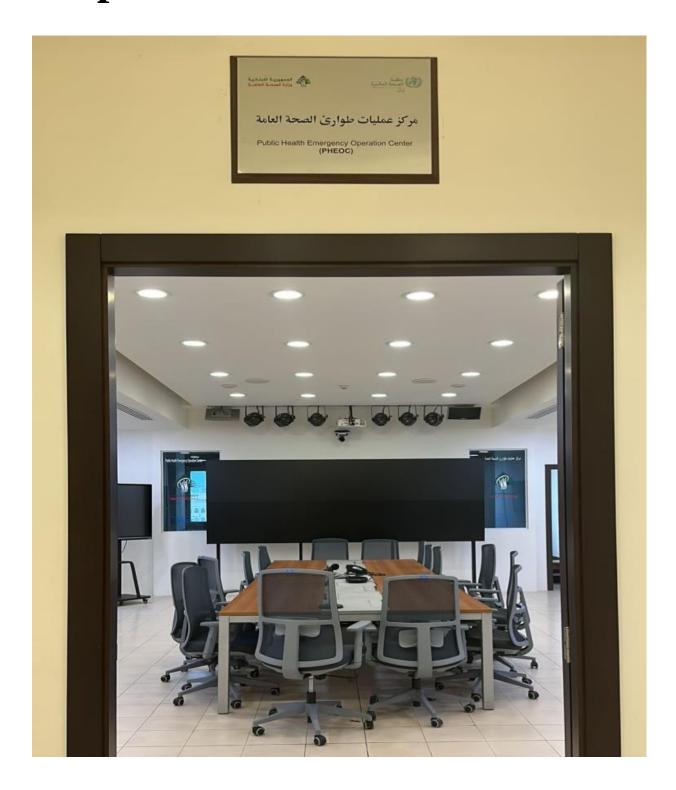


TABLE OF CONTENTS

ACKNOWLEDGMENTS	4
ACRONYMS	
1. Introduction	
1.1. Rational	
Purpose, Mission and scope	
2.1. Purpose of the handbook	
2.2. Objectives of the PHEOC	
2.3. Scope of PHEOC	
3. Target audience	
4. Laws and regulations on PHEOC	
Strategic risk assessment	
6. Core components of PHEOC	
 Description of the PHEOC 	
7.1. Physical location:	
7.2. Description of rooms and the function of each room:	
7.3. Technology:	
7.4. Entrance authorization to the PHEOC:	
7.5. Physical security:	
7.6. Capacity of the PHEOC:	
7.7. Information management system:	
7.8. Rest area:	
7.9. Others:	
8. Management of the PHEOC	
9. Concept of operations	
9.1. Staffing the PHEOC	
9.1.1. Permanent staff	
9.1.2. Surge staff:	13
9.1.3. Policy group	14
9.2. Modes of operations	14
9.2.1. Watch mode:	14
9.2.2. Alert mode	
9.2.3. Response mode	
9.3. Criteria and authority for PHEOC activation	
9.4. Contextualization of the CONOPS during the transition period	17
9.5 Shift during activation	

9.6.	De-escalation	. 18
9.7.	PHEOC Deactivation	. 18
9.8.	After Action review	. 19
9.8.	1. Objectives of AAR:	. 20
9.8.	2. Methodology:	. 20
9.9.	Response structure and roles and responsibilities	. 20
9.9.	1. Strategic level	. 20
9.9.	2. Operational level	. 21
9.9.	3. Tactical level	. 22
9.9.	4. Rapid response team (RRT)	. 22
9.10.	Request for assistance	. 23
9.11.	Linkages with other sectors and agencies	. 23
10. Infor	mation management	. 23
10.1.	Essential elements of information (EEI):	. 23
10.2.	Critical information requirements (CIRs):	. 24
10.3.	Information flow:	. 24
10.4.	Recording and documentation:	. 24
10.5.	Analysis / visualization:	. 25
10.6.	Displaying information:	. 25
10.7.	Information products:	. 25
10.8.	Partners' activity tracking:	. 25
10.9.	Meetings and activities schedule:	. 25
10.10.	Emergency contacts:	. 26
11. Coor	dination and communication	. 26
11.1.	Internal:	. 26
11.2.	External:	. 27
11.2	2.1. Public communication:	. 27
12. Mon	itoring and evaluation of the PHEOC:	. 28
13. Trair	ing and exercise	. 28
14. Redu	indancy / continuity of operations plan	. 29
15. Logi	stics support for PHEOC operations	. 30
ANNEX	ES	. 31
GLOSSA	ARY	. 53
REFERE	NCES	. 54

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ACRONYMS

AAR After Action Review/Report
CAP Corrective Action Plan
CD Communicable Diseases
CDC Centre for Disease Control

CFE Contingency Fund for Emergency

CS Command System DG Director-General

DMS Disaster Management System
DRM Disaster and Risk Management
EOC Emergency Operations Center
ERP Emergency Response Plan

ESU Epidemiological Surveillance Unit
GPS Geographic Positioning System
ICS Incident Command System
IHR International Health Regulations

IM Incident Manager

IMS Incident Management system

LSID Lebanese Society of Infectious Diseases

MOA Ministry of Agriculture

MOPH Ministry of Public Health

MOE Ministry of Environment

NCDC National Communicable Diseases Committee

PHE Public Health Emergency

PHEIC Public Health Emergency of International Concern

PHEOC Public Health Emergency Operations Centre

PMC Prime Minister Cabinet

PPE Personal Protective Equipment

RHGUH Rafic Hariri General University Hospital

RRA Rapid Risk Assessment
RRT Rapid Response Team
SITREP Situation Report
TOR Terms of Reference
VPN Virtual Private Network
WHO World Health Organization

WR WHO country representative

1. Introduction

Public health emergencies arising from public health threats and man-made disasters continue to be major concern in the Eastern Mediterranean Region. Countries in the region are investing in country preparedness measures and Lebanon is no exception. Therefore, the Lebanese Ministry of Public Health established a Public Health Emergency Operations Center (PHEOC) that plays a critical role in preparing for and responding to public health emergencies to fulfill the International Health Regulations (IHR) obligations.

A Public Health EOC (PHEOC) serves as a hub for coordinating the preparation for, response to and recovery from public health emergencies. The preparation includes planning, such as risk and resource mapping, development of plans and procedures, and training and exercising; while the response includes all activities related to investigation, response and recovery. The PHEOC also serves as a hub for coordinating resources and information to support response actions during a public health emergency and enhances communication and collaboration among relevant stakeholders.

The framework for a Public Health Emergency Operations Centre (PHEOC framework) provides high level guidance for establishing or strengthening a functional PHEOC. The framework defines "plans and procedures" as one of the key components of PHEOC and highlights that the PHEOC has different types of plans and procedures under the overarching national health emergency response plan. The PHEOC plans and procedures include: PHEOC handbook, event or hazard specific response and management plan, and Incident action plan.

This PHEOC handbook describes objectives of PHEOC, management, response coordination system, criteria and authority for activation, information management, communication from the PHEOC and procedures for operating a PHEOC. It will serve as the primary resource manual for PHEOC staff, containing necessary forms, role descriptions, Concept of Operations (CONOPS) and Standard Operating Procedures (SOPs).

1.1.Rational

The MOPH in Lebanon established a PHEOC to serve as nerve center for preparation and response to public health emergencies. This PHEOC handbook will be utilized by concerned MOPH staff and PHEOC members as a reference to guide PHEOC management and operations.

2. Purpose, Mission and scope

2.1.Purpose of the handbook

The purpose of PHEOC handbook is to provide step-by-step guidance for the management and operations of the MOPH PHEOC to prepare for and respond to public health emergencies (PHEs) in order to ensure optimal and effective use of the facility.

This includes:

- a) day-to-day management and operations of the facility
- b) procedures to follow to activate the PHEOC to coordinate the responses to PHEs
- c) operations of the PHEOC during different levels of activation
- d) organization of response and ensuring multi-disciplinary / multi-sectoral coordination
- e) management of data and information for evidence-based decision-making
- f) coordination of human, financial and material resources

2.2.Objectives of the PHEOC

Key objectives of PHEOC include:

- a) Timely event specific operational decision making using the best available information, policy, technical advice and plans.
- b) Communication and coordination with response partners
- c) Collection, collation, analysis, presentation and utilization of event data and information

- d) Acquisition and deployment of resources, including surge capacity services and material to support all PHEOC functions
- e) Preparation of public communication and coordination with response partners to support audience awareness, outreach and social mobilization
- f) Monitoring financial commitments and providing administrative services for the PHEOC.

2.3. Scope of PHEOC

The scope of PHEOC depends on the purpose for which the PHEOC is created. A PHEOC integrates traditional public health services into an emergency management model. It supports and is a component of existing national disaster management authorities or entities. The PHEOC, as a public health oriented EOC, must be part of a comprehensive program of public health emergency preparedness, planning and capacity building. Such a program includes, but is not limited to:

- a) Prevention and mitigation of hazards
- b) Enhancing readiness by planning for and stockpiling response resources
- c) Establishing related institutional and technical capacities and capabilities (e.g. laboratories, community clinics, and rapid response teams)
- d) Implementing public health surveillance programs
- e) Enhancing environmental health programs
- f) Engaging communities
- g) Training staff and validating plans

3. Target audience

The handbook is intended to be utilized by PHEOC staff to guide the PHEOC operations and management including decision procedures for activation and deactivation and procedures to follow under each activation level. In addition, responders who coordinate response to outbreaks and other public health emergencies will use this document.

4. Laws and regulations on PHEOC

PHEOC should be adopted by a national law, decree, or in the easiest way by a ministerial decision. This legal document will authorize and legitimize the PHEOC and govern its activities. It also describes briefly the authority the PHEOC has to manage public health emergencies, authority for activation and deactivation, authority and mechanism for availing funding for sustaining the PHEOC and emergency response etc.

5. Strategic risk assessment

As per the Lebanese National Contingency Plan (2015), the risks scenarios rating for Lebanon are described in Tables 1 and 2.

Table 1. Risks scenarios rating for Lebanon

Disaster category	Threat	Risk (scale 1 to 5, 1 unlikely 5 very likely)
Natural disaster	Earthquake	3
	Tsunami	1
	Fire	4
	Flood	3
	Heat wave/snow storm	2
Man-made	Internal conflict	4
	External conflict	4
	Chemical/Biological/Radio-Nuclear leak	3
Outbreaks	Air borne	4
	Water Sanitation borne	4
	Vaccine preventable	3
	Other	

Table 2. What epidemic diseases to expect and when in emergencies

Main risk factor	Main epidemic disease of	Timing after	Resources Gaps
	concern	onset of risk	
		factor	
		(window to	
		act)	
Flooding	Malaria	At least one	Human ressources, vector
Intense rainy season	Dengue fever	month	surveillance, shelters, electric
Temperature abnormalities	Rift valley fever		power, sustainability of WASH activities
Movement of people from	malaria	At least one	Human resources, vector
non-endemic into disease-		month	surveillance shelters, electric
endemic region			power, decentralization of the
			treatment
Dry season	meningitis	About two	Prophylactic treatment for
		weeks	some types
Insufficient water	Cholera	Around two	Sustainability and
Contaminated water	Shigella	weeks	decentralization of diarrheal
Poor sanitation	Rotavirus		kits, Enhancing WASH
			activities
Overcrowding	Measles	Around two	Prophylactic treatment for
	Meningitis	weeks	some types of meningitis
Poor nutrient intake	Measles	About one	Ensure target population is
	Cholera	to two	properly vaccinated for
	Shigella	months	measles
	Rotavirus		Enhancing WASH activities
Interruption of Routine	Measles, mumps, rubella,	A few	Ensure target population is
vaccination polio		months	properly vaccinated
Pandemics	Influenza, SARS, MERS-	Global	Sustainability of enough stock
	CoV, Ebola, etc		of Antivirals, PPEs

6. Core components of PHEOC

The key components that make a PHEOC functional, as highlighted in the EOC framework are:

- **a.** Plans and procedures: These include an ERP for the health sector (which includes the intended operation of the IMS and PHEOC), an EOC facility plan and a plan for continuity of operations.
- **b.** Physical infrastructure: the EOC facility can either be purpose-built or housed in a multi-purpose space. It should be physically and environmentally secure, accessible and survivable in any emergency, and with adequate space for its staff. It must contain both open common areas and closed work spaces. A business continuity plan, or continuity of operations plan, should be developed and practiced.
- c. Information and communication technology (ICT) infrastructure: ICT enables internal and external telecommunications and all aspects of information management required to carry out the daily operations of an EOC. Telecommunications systems, including but not limited to mobile and satellite telephony with short messaging functionality and high frequency amateur or professional radio capabilities, are necessary to support real-time communications. In addition, workstation computers are required, with connections to a local area network with internet and electronic mail capabilities.
- **d.** Information systems and data: The goal of an effective EOC information system is to increase the availability, accessibility, quality, timeliness, and usefulness of emergency operations data. An information system must support all the functions of the EOC and should respect the principles of data security, privacy, and confidentiality.
 - It is strongly recommended to create a VPN (Virtual private network) where all stakeholders can access, update and share information related to the EOC at all times.
- **e.** Human resources: successful operation of a PHEOC requires competent, trained staff. A roster should be maintained for each position within the EOC. The roster should have sufficient numbers to maintain PHEOC operations around the clock.

Meeting minimum requirement for each component enables the PHEOC run according to minimum standards as stipulated in the IHR joint external evaluation.

Figure 1 illustrates the key components of PHEOC.

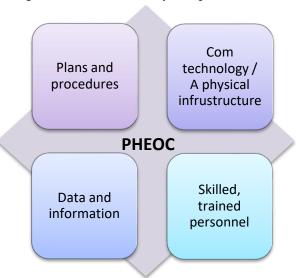


Figure 1. Core components of PHEOC

^{*}Refer to Annex 3 of the PHEOC framework for details of the basic requirement of the key components.

7. Description of the PHEOC

7.1. Physical location:

The Public Health Emergency Operations Center is based at MOPH, Beirut, Bir Hassan, 4th floor.

7.2. Description of rooms and the function of each room:

- One secretary room: Secretary functions such as receiving and making calls, registration, printing documents...
- One main operation room (including small built in rooms: One for IT and multi-media functions
- One meeting room
- One Staff office with three desks
- Two sets of WCs for both females and males (located outside the PHEOC)

7.3. Technology:

Display screens (4 TV screens and one big display screen composed of 6 small screens), computers (7 laptops) tele-communication facility, phones, 1 projector, and 1 smart board. It is important to note that the PHEOC can closely coordinate with the National DRM unit at the Prime Minister Cabinet at Grand Serail through the MOPH focal person at the National DRM unit, and therefore with High Relief Council (HRC), armed forces, the Civil Defense, the Lebanese Red Cross (LRC). The PHEOC is equipped with advanced Information and Communication Technologies (ICT) emergencies. The PHEOC is equipped with a DHIS2 system that allows flow of information from peripheral health units to the MOPH centrally.

7.4. Entrance authorization to the PHEOC:

Done by the MOPH.

7.5. Physical security:

5 surveillance cameras are present at the PHEOC: one outside the main entrance, 1 at the main room and one outside PHEOC

7.6. Capacity of the PHEOC:

The PHEOC can accommodate 40 participants (18 around the table) & 22 observers

7.7. Information management system:

An electronic information management system is being developed to be use for information sharing and management through usual internet and direct communication with Thuraya satellite.

7.8. Rest area:

There is a small rest area at the PHEOC.

7.9. Others:

Fire alarm present at the PHEOC. However, and despite the presence of smoke and fire detectors, it is better to consider establishing a whole built-in firefighting system.

8. Management of the PHEOC

Organizational location: The PHEOC falls directly under the DG of Public Health. Therefore, the manager of the PHEOC should report directly to the Director-General of the MOPH (Figure 3).

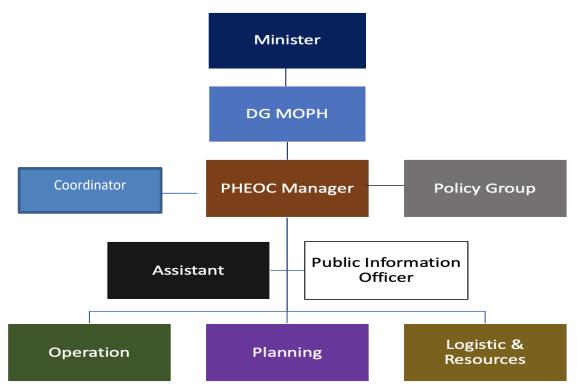


Figure 2. Organogram of the PHEOC (The number of Staff requested to run the PHEOC depends on the time (Watch, Alert or Response modes)

Users: when the PHEOC is not activated, the PHEOC might be used for conferencing, training and meetings. The PHEOC manager needs to define the users and put in place a system for requesting utilization of the facility. The request will be sent to the PHEOC by email or other means (eg. Online request form or phone call).

The following information should be provided when requesting reservation of the room

- a) Purpose of usage
- b) Date, time and duration
- c) Resource to be used (videoconference, teleconference, meeting room, etc)
- d) Number of locations to be connected
- e) Number of persons expected to use the facility

The PHEOC manager needs to designate responsible person to coordinate this activity.

Access to the PHEOC: Access to the PHEOC is controlled. A registration log and sign-in sheet is placed by the entrance. A template is provided in the Annex 1. The PHEOC manager maintains a list of people with keys or access codes to the PHEOC. Users can access the PHEOC after receiving authorization from the MOPH. During activation of the PHEOC, regular meetings and calls may be cancelled and the PHEOC would be occupied by the IMS staff.

Regular facility check: To ensure that the PHEOC is always ready for activation, it is vital to carry out regular checks of the infrastructure and technology system to guarantee its continuous functionality. In Table 3, an example of schedule of facility check is detailed, in terms of what to be checked when and who is the responsible person.

Table 3. Schedule of EOC check

No.	Equipment	Frequency*	Date	Status	Remedy
1	PC 1(main)	Daily	11/12/2019	Working properly	
2	PC 2	Once/wk			
3	PC 3	Once/wk			
4	PC 4	Once/wk			
5	Screen 1	Once/mo			
6	Screen 2	Once/mo			
7	Screen 3	Once/mo			
8	Projector 1	Once/wk			
9	IT Server	Once/wk			
10	External phone line 1?	Daily			
11	Internal phone line 1?	Daily			
12	Photocopier?	Once/wk			
13	Fax?	Once/wk			
14	Camera 1	Daily			
15	Etc				

^(*) This is just an example and frequencies can be amended as needed.

Systems check checklist is provided in Annex 2.

The PHEOC manager may also call for call-down drills exercise to test facility functionality (see training and exercise section).

9. Concept of operations

The concept of operations, or CONOPs, describes how and when to engage different branches and levels of government as well as other partners (including international agencies) in the incident management system (IMS). It defines the intended operation of the entire emergency response system and describes:

- 1. The responsibilities of designated organizations at strategic, operational and tactical levels
- 2. The structure and organization of the overall response
- 3. Grading of the event to determine the necessary levels of response
- 4. The nature of escalating levels of response
- 5. How the components of the response work together.

The CONOPs is key to detailing how multi-sectoral and transnational coordination will work at the strategic, operational and tactical levels.

9.1. Staffing the PHEOC

The EOC has two types of staff: the permanent and surge staff.

9.1.1. Permanent staff

The permanent staff is responsible for the day-to-day operation of the PHEOC. These include PHEOC manager, leads of the key functional areas and staff under each area.

The PHEOC manager reports to the leadership under which the PHEOC is placed in the Ministry's organizational structure and the PHEOC staff report to the PHEOC manager.

The PHEOC manager

The PHEOC manager leads the PHEOC activities and is responsible for:

- The day to day operation of the PHEOC
- All PHEOC operations and ensures that the facility and resources required for PHEOC support are provided
- Ensuring development of plans and procedures, and monitoring implementation
- Developing of training programs and conducting simulation exercise to test systems
- Ensuring proper management of information and documentation
- Ensuring timely dissemination of information
- Undetaking corrective actions following evaluation of the PHEOC and after action reviews

In addition, when the PHEOC is activated the PHEOC manager will:

- staff the PHEOC in collaboration with the Incident Manager;
- advise to the incident manager on utilization of emergency management tools and procedures;
- ensure all systems in the PHEOC are up and running to provide operational support;
- avail PHEOC resources and ensure access to the information systems is provided to the IMS team:
- ensure proper documentation of the response to enable recreate the incident for after action review

The key functional sections operating under the PHEOC manager are:

A- Operations unit: responsibilities include:

Coordinate alert and response activities.

B- Planning unit:

Develop and/or update plans and procedures; conduct exercises to test plans; follow-up on implementation of after-action reviews; maintain situational awareness

C- Logistics and Resources unit

Manage, forecast and order resources based on risk profile.

Because of the centralized finance management in the MOPH, this unit will managed/follow up all finance engaged in the response

It is vital to assign at least one person in each unit as leads. The watch staff fall under the supervision of the operations lead.

The PHEOC needs to have a <u>communication officer</u>. If there is no a permanent communication officer, it is crucial to linkup with the ministry of health communications unit to ensure required support. If capacity allows, it is necessary to also have Liaison and security/safety officers.

It is also very important to have an <u>ICT manager</u>. He/she will ensure all ICT equipment are up and running, and are always ready to support PHEOC operations.

A summary of the PHEOC and its key functions are shown in Annex 3.

9.1.2. Surge staff:

The PHEOC maintains roster of multi-disciplinary and multi-sectoral experts which can be mobilized and staff the PHEOC when activated. When the IMS is activated, depending on the scale of the incident, positions will be identified in the IMS. Based on the positions identified, human resource response plan will be developed. Experts will be identified from the roster to fill the identified positions. Terms of reference for each position will be developed. A generic TOR is given in Annex 3 for adaptation to the situation. The PHEOC manager organizes regular training of people in the roster and conducts simulation exercises to test the PHEOC plans, procedures, and systems.

A request for assistance need to be made to key partners should there be a gap to fill required positions.

9.1.3. Policy group

The policy group will provide strategic leadership and guidance to the EOC operations and avail funding for emergency operations. Roles and responsibilities of the leadership include:

- providing strategic guidance to the PHEOC
- ascertaining funding for sustaining the PHEOC
- Availing funding for emergency operations
- Ensuring relevant plans and procedures are in place and approve them
- Ensuring multi-sectoral and multi-agency coordination and collaboration

The leadership / policy group are composed of:

- Ministres of relevant sectors
- National disaster management agency
- Representatives of international and regional organizations.
- Key subject matter experts including legal and ethical advisors
- Partners involved in emergency management
- Key subject matter experts

The Minister of Health or the DG or a designated person who is given authority to bring different sectors together, is the chairperson of the policy group.

The leadership group need to regularly receive updates highlighting the situation, operations, challenges, gaps and outline activities that require leadership attention and decision and support. A template for situation update to the leadership is provided in Annex 11. The incident manager is responsible for coordinating preparation of the report and sharing with the leadership.

9.2. Modes of operations

The PHEOC typically operate in three modes. These are: watch, alert, and response modes.

9.2.1. Watch mode:

This mode corresponds to the normal day to day business activities. The watch staff constantly monitors and triage information on public health events by facilitating the collection, organization, analysis, distribution, and archiving of information.

N.B: The PHEOC is constantly in watch mode throughout the different modes of operation. The staff continues to monitor events even if the PHEOC is in alert or response mode.

The work of the watch mode is guided by critical information requirement. In this mode, the PHEOC is in a constant state of preparedness and readiness to support any escalation of operation level.

The watch services need to be carried out in coordination with the Epidemiological Surveillance Unit (ESU) at the MOPH.

The ESU team monitors events through routine surveillance, event based surveillance and media monitoring, as well as manages information such as true information or rumors received from the community through the MOPH hotline and other sources such as social media. This work should be done through a digital platform. The watch staff must have full access to all ESU digital platform. When thresholds are exceeded or incidents of public health interest detected, they should be immediately entered into the platform and all follow-up action and response activities should be documented and tracked (if EOC is activated). The same should be done if new threats are detected and evaluated. The platform enhances accountability for any detected incident throughout its entire life cycle. Also, a weekly or bi-monthly technical session National Surveillance and Outbreak Review Meeting brings together key technical staff and partner agencies to review disease data, provide updates on incidents, preparedness and response activities. The ESU meeting conducted once every week can play this role.

Roles and responsibilities of watch staff include:

- Monitor and triage incoming information
- Draft or prepare reports
- Distribute reports, documents, and notifications relevant section or responsible person

- Ensure that the PHEOC has supplies and that equipment is operational
- Coordinate or lead briefings as required
- Support management of small scale events that don't meet criteria for activation

As previously mentioned, these activities are usually conducted by the ESU teams in coordination with the response teams at national and subnational levels.

9.2.2. Alert mode

The alert mode is the <u>early standby phase of activation</u> when an emergency event has occurred or is imminent. The notification will come through the ESU and the watch team. The PHEOC conducts intensive monitoring of an incident or event in preparation for a potential activation.

Alert mode activities include but not limited to intensified surveillance, deployment of RRT to undertaken investigation, commencement of coordination with other sectors, initiation of preparation for deployment of financial and logistic resources, and identification of experts to staff the PHEOC. To accomplish these activities, the PHEOC usually requires increased staff and extended working hours. The PHEOC identifies and requests for additional surge staff as necessary. Depending on the nature of the event, people from other ministries can be invited (MOA, MOE...)

a. Risk assessment

The PHEOC conducts risk assessment to determine if the incident requires PHEOC activation and determine the level of activation. The assessment can be done by the PHEOC staff and subject matter experts.

The levels of activation are determined based on the results of a rapid initial risk assessment after an event has occurred. The PHEOC is activated (within 120 minutes) immediately after the risk assessment is completed and a directive is given. The PHEOC should be capable of activating within 120 minutes as required by IHR indicator for PHEOC to run according to minimum standards. Risk assessment template is provided in Annex 7.

9.2.3. Response mode

During response mode, the centre is activated. The center defines levels of activation corresponding to levels of response. The lowest level of response addresses relatively lower scale events for which all response activities are largely within the capabilities and resources of the PHEOC and low level augmentation is required.

Activation levels are re-evaluated based on the results of the continuing risk assessment after the occurrence of an event. The levels of activation of the PHEOC are indicated by yellow (low), orange (medium) and red (high) color codes. The determination of a level of activation is based on four criteria: the level of urgency, the severity, the complexity of the event and the capacity of the PHEOC to respond.

Table 4. PHEOC Levels of Activation

Levels of activation	Transition criteria		
High intensity emergency	 Very complex situation: several Mohafaza affected and the capacities of the structures of care come to saturation. The resources of the Ministry of Health become insufficient. National support and international partners are needed in terms of logistics and funding. The response capacity of the PHEOC overwhelmed and as such. The DRM takes over the coordination of the response 		
Emergency of medium intensity	 Complex situation, more than one Mohafaza, the capacities of the reception structures are reaching saturation. PHEOC provides coordination and response activities with the support of the surge and contract staff. Some ministries and international partners are involved. Available local resources are depleted. National logistics is engaged, with minimal logistical and financial support from partners. 		

	■ The DRM supports the response
Low intensity emergency	 Situation under control (not complex), one Mohafaza affected, the capacities of the local structures are green (Adequate resources available). Through its management structure, the PHEOC ensures coordination with the internal staff, with the support of the other departments of the Ministry of Health. International partners are minimally involved. The command and control of the incident will be locally focused, and the coordination will be from the governorate/MOPHafaza EOC. Available local resources are committed and adequate for the response.

During responses to humanitarian crisis or disasters, the health sector will provide the required health services and activate the PHEOC as necessary.

9.3. Criteria and authority for PHEOC activation

a. Activation Criteria

In any PHEOC, it is important to define triggers for activation for each level of activation Meeting the following criteria (some or all) triggers activation:

- 1. The capacity of the Governorate / district of incident occurrence overwhelmed
- 2. Any condition that has met the criteria to be declared a Public Health of event of International concern (PHEIC) in line with IHR 2005 guidelines
- 3. An Emergency with high public health burden potential
- 4. the capacity of regular staff is overwhelmed and additional support is required
- 5. Additional resources are required
- 6. A condition with the potential of cross border effects
- 7. Leadership / Policy Group directive
- 8. High media interest
- 9. wide geographic extent (including one mohafaza or more)

b. Authority for activation

The Minister of Health or the responsible authority (for example the DG of the MOPH) gives directives for activation of the PHEOC following a proposal by the PHEOC manager. Activation will be based on results of risk assessment. The Minister or the responsible authority may also directly provide directives for activation for political reasons or foreseen situations.

Proposed activation procedures (align to the procedures in the overarching health response plan):

- Conduct risk assessment,
- If criteria for activation is met, determine activation level
- Proposal to the health minister or designated authority for activation
- Authorities' approval to activate the PHEOC
- Designation of incident manager and activation of incident management system
- Exceptional activation by direct order by authority
- Approval of resources required (corresponding levels of activation) to kickoff response

c. Activation notification

Activation notification provides information on activation of PHEOC, level of activation, assign lead responsibility to a specific organizational unit; identify the initial IMS structure to be implemented including designation of the Incident Manager.

The notification should be communicated with relevant stakeholders. The PHEOC needs to define recipients of the notification.

d. Activation checklist

- 1. Notification sent to relevant stakeholder
- 2. Incident manager is designated
- 3. IMS activated (partially or fully)
- 4. Section leads (Finance, Operations, Logistics & Planning) called upon
- 5. Personnel assigned to positions on the PHEOC, report to the PHEOC and check in with section leads
- 6. Determine staffing needs and acquire additional support as required
- 7. Incident action plan is developed
- 8. Orientation provided to surge staff on the PHEOC
- 9. Deploy any relevant available maps
- 10. Conduct incident situation briefing
- 11. Task assigned to Incident Management System (IMS) team monitored using tasks tracking tool
- 12. Issue job action sheets
- 13. Ensure situation report is regularly disseminated
- 14. Activity logs conducted
- 15. Shift change plan and briefing done
- 16. Emergency contacts list developed and shared
- 17. Ensure proper documentation of relevant information in a central location
- 18. Ensure communications equipment is working and ready for operation
- 19. Necessary logistical supplies and materials are available
- 20. Ensure partners activities are tracked and used for planning and coordination

9.4. Contextualization of the CONOPS during the transition period

Waiting for a fully operational and permanent PHEOC, the center will run at the beginning according two modes: Alert and Response.

The lack of human resources made the impossibility to have permanent staff sitting in the center. It's why we start by and temporary PHEOC, activated when an alert occurs.

The epidemiological surveillance unit (ESU) will oversee the watch mode and notify the PHEOC when a signal is considered to be a national or international concern. At this time the PHEOC is automatically activated and start to be operational. SOPs will define how the notification will be done and how the PHEOC will be organize

When activated, the PHEOC must immediately notify the DRM unit and the Lebanese Red Cross.

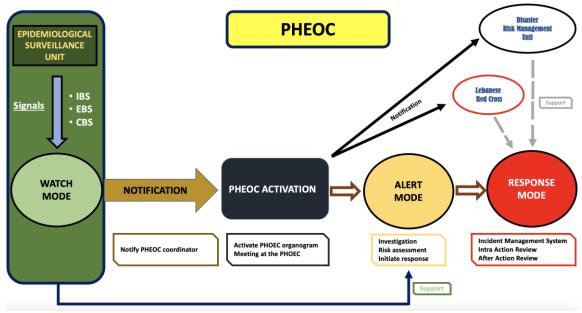


Figure 3. PHEOC functioning

9.5. Shift during activation

During activation where coordination of responses from the PHEOC requires working extended hours up to 24/7, qualified staff on the PHEOC activities will work in rotation. A complete shift of staffing will be established for the duration of the operations. The Incident Manager (IM) with support of PHEOC Manager is responsible for developing a rotation plan. A briefing (at least 15 minutes) must be given to the replacement. It is recommended that a person to work maximum of 12 hours in a shift. The shift plan will be recorded and displayed in the PHEOC. Shift plan template is provided in Annex $8\,A/8\,B$.

9.6. De-escalation

When the scope, complexity, and severity of health emergency decreases, scale-down, de-escalation of the level of activation needs to be considered.

Consideration on de-escalation includes decrease in one or more of the following:

- No more a Public Health Event of International concern (PHEIC) in line with IHR 2005 guidelines
- Human resource surge support required
- Resources required
- Media interest
- Geographic extent
- Executive / leadership directives

The PHEOC will conduct risk assessment and review of activation level in order to make decision for de-escalation.

9.7. PHEOC Deactivation

When the response is declared over, the PHEOC will be deactivated and return to routine monitoring. The Minister of Health or designated authority is responsible for deactivating the PHEOC.

- a. Criteria for deactivation
 - Some of the criteria for deactivation include:
 - The trends and data from the field begin to suggest that the issue being addressed is on the decline

- The issue is no longer a public health threat
- The incident is to the capacity of the sub-national level
- Resources are no longer required
- The incident or state of emergency has been declared over by the MOPH or designated authority

b. Deactivation checklist

- Notify appropriate agencies through mail &/or phone regarding the individual sites where the PHEOC activation is being closed out.
- Collect data, logs, situation reports, message forms, and other significant documentation for archiving.
- the IM to handover to the PHEOC manager
- Fold and repack re-usable maps, charts, materials
- Collect items that have been deployed in the field for future response use
- Make a list of all supplies that need replacement and forward to the logistician
- Return identification credentials to the PHEOC Manager
- Develop deactivation report
- Deactivated

9.8. After Action review

The International Health Regulations (IHR, 2005) require countries to develop core public health capacities to prevent, detect and respond to public health events. Following recommendations of the IHR review committee on second extension for Establishing National Public Health Capacities and on IHR Implementation in 2014, the World Health Organization has developed a new IHR Monitoring and Evaluation Framework (IHRMEF) with three new components. One of the three components is After Action Review – Qualitative review of functional capacity which is conducted after response to public health events

After action review (AAR) helps to assess actions taken in response to a public health emergency as a means of identifying best practices, gaps and lessons learned in order to take corrective actions to improve future response. It is highly recommended to conduct the AAR <u>immediately after the declaration of the end of a public health event and up to three months</u> after the event. Therefore, the PHEOC will conduct AAR with in the recommended timeframe.

The IHRMEF, recommends and encourages countries to conduct After Action Review (AAR) of the response to Public Health emergencies in order to learn from the response to improve future outbreaks and Public Health emergencies.

9.8.1. Objectives of AAR:

- Demonstrate the functional capacity of existing systems to prevent, detect, and respond to a public health event
- Identify lessons and develop practical, actionable steps for improving existing preparedness and response systems
- Share lessons learned from the review with other public health professionals
- Provide evidence for the development of the national action plan for health security or to contribute to other evaluations such as the Joint External Evaluation or simulation exercises

9.8.2. Methodology:

An After Action Review (AAR) is a qualitative review of actions taken to respond to a real event as a means of identifying best practices, lessons and gaps in capacity.

The AAR exercise uses an interactive, structured methodology with user-friendly material, group exercises and interactive facilitation techniques. It is divided into 5 sessions:

- What was in place before the response?
- What happened during the response?
- What went well? What went less well? Why?
- What can we do to improve for next time?
- Way forward

After any live activation or simulation exercise, the PHEOC conducts an AAR; and at the end of every AAR, an action plan is developed and the activities are prioritized for implementation with clear timelines to address the identified gaps.

The planning section is responsible for conducting AAR, development of action plan and monitoring of implementation.

9.9. Response structure and roles and responsibilities

We have three levels of coordination: Strategic, Operational and Tactical.

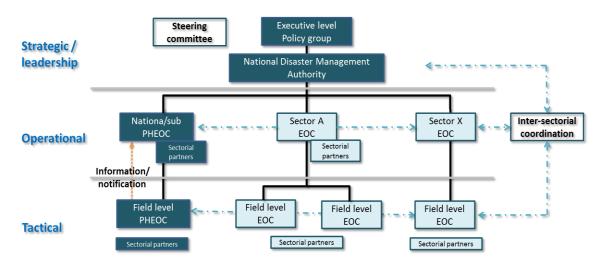


Figure 4. Organizational structure for command and response

9.9.1. Strategic level

It's also the policy level. This is the highest level of the national disaster management structure and is responsible for strategic coordination and policy making. It is usually led by the office of the prime minister, coordinated by the DRM unit

9.9.2. Operational level

The operational level is responsible for effective coordination of all response elements and maintenance of situational awareness for strategic-level authorities. It's the level of the PHEOC

The PHEOC will use the IMS for coordination of response to public health emergencies. The IMS is an emergency management structure and protocols that provide an approach for coordination of response of the PHEOC in a coordinated manner, primarily to respond to and mitigate the effects of all types of emergencies. The system is modular and scalable, hence can be partially or fully activated depending on the scale of the event.

Within the necessary framework, five essential functions are typically established, with the flexibility to adapt to different incidents, agencies, and jurisdictions. These essential functions are:

- 1. Management
- 2. Operations
- 3. Planning
- 4. Logistics
- 5. Finance and administration.
 - 1. Management: It sets the response objectives, strategies and priorities; including public communication and liaising with agencies and the safety of responders. The IM is responsible for overall management of the response operation. The role of the IM can be assumed by designated deputy IM. Leaders of the other four sections directly report to the IM.
 - The following functions fall under management section: PHEOC manager, public health communication officer, liaison / partnership officer, and safety/security officer.
 - 2. Operations: It guides the use of resources to directly respond to the event. At the national level it provides coordination and technical guidance. This section includes the following technical areas: surveillance, laboratory, epidemiological data management, social mobilization, water, sanitation, and hygiene; and case management, mass casualty management etc.
 - 3. Planning: It supports the event action planning and budgeting process by tracking resources and collecting and analyzing information. This function is responsible for preparing incident action plan and maintaining documentation of the event. An incident action plan template is provided in Annex 9.
 - 4. Logistics: It acquires, tracks, stores, stages, maintains, and disposes material resources required for an event response.
 - 5. Administrative and finance: It organizes all financial and administrative tasks including accounting, procurement, human resource, etc.

The Incident Management and response structure is provided below (Figure 5).

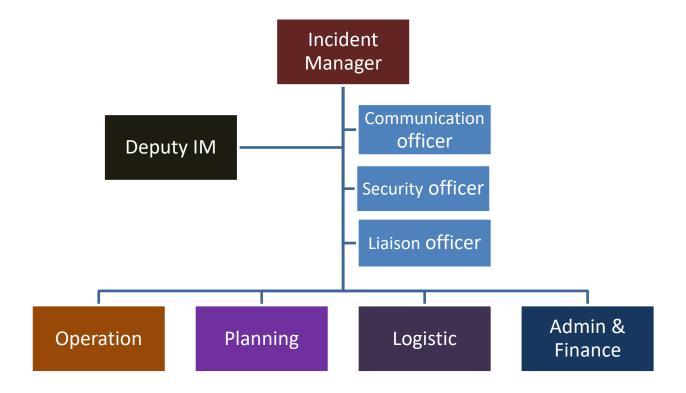


Figure 5. Incident management model

The incident manager is responsible for determining the IMS structure and defining staffing requirement. Continuous assessment will be conducted, and the structure will be reviewed based on the scale and complexity of the emergency event. Roles and responsibilities of response personnel is given in Annex 3 and must be adapted to the event situation.

Once the PHEOC is activated, the IM and section leads will issue job action heets. Tasks on the job action sheet can be amended to fit the situation by adding or deleting tasks. The job action sheet outlines tasks to be implemented by surge staff.

The tasks are categorized as:

Immediate: tasks that must be completed first upon assuming the role or coming on duty.

Intermediate: tasks to be completed after the immediate tasks are addressed.

Extended: tasks to be completed later or on an on-going basis during the work shift. Annex 10 provides a job action sheet template.

9.9.3. Tactical level

The third level of a response is the tactical management of response operations. Unlike the national or subnational levels, this will normally be located as close to the incident as possible, at Governorate, district or community level. This may take the form of a mobile and temporary command post, an EOC staffed by all agencies responding locally, or a local public health-specific EOC.

9.9.4. Rapid response team (RRT)

The RRT is a multi-disciplinary team, trained to provide support to Governorate, District and local health authorities in the event of any public health emergency. The RRT is ready to be deployed and provide surge capacity, and complimentary expertise to responses to emergencies.

The RRT will participate in all training and exercise programs planned by the PHEOC. During responses to PHE, experts will be deployed to the tactical level to conduct investigation and support response operations.

The RRT operates at tactical level (field level) and the operations section of the IMS in the PHEOC oversees their activities.

Eight RRT should be established: One in each Governorate, the one in Beirut will be the national RRT. A training program should be developed for the RRT team.

9.10. Request for assistance

The IM identifies gaps and proposes to the leadership on types of resources (human, material and financial) required from external sectors and response partners. The leadership prepares a letter of request for assistance signed by the minister or designee. This process needs to be aligned to the existing internal ministry procedures.

9.11. Linkages with other sectors and agencies

The Concept of Operations (CONOPS) in the national public health response plan should describe when and how the PHEOC links and interacts with national disaster management agency, line ministries including defence, security and international organizations. Military and other resources may be engaged as necessary and coordinated through the PHEOC. National CONOPS on linkages and responsibilities of all stakeholders in Lebanon is done through the National DRM Committee and the National CBRN Committee. If needed, the bigger CONOPS might be annexed in this handbook.

- In case of partial activation, and when other sectors are involved, the PHEOC manager should ensure to have contact with relevant persons at different ministries (Agriculture, Environment, Interior, Defense...)
- In case of full activation, the PHEOC manager should liaise with the representative of the Ministry of Health at the National EOC.

Using both national and technical IHR committees can help in establishing coordination between all agencies during activation.

Emergency response planning is part of a comprehensive disaster risk management program that addresses questions about who or which agency does what during an emergency, and when. This creates a framework for responsible agencies to develop and test plans for engagement.

A PHEOC is the response management component of an evolving comprehensive emergency (risk) management program within the responsible jurisdiction. PHEOC planning should recognize both alignments with the NDMA and linkages with national-level humanitarian response agencies.

The PHEOC need to secure a liaison officer who facilitates linkages and coordinate joint planning and efforts of agencies that are external to the health sector. A model of CONOPS is given in Annex 13.

10.Information management

The EOC framework defines three types of information required in PHEOC for decision making. These are:

- Incidents specific information
- Event information
- Contextual information

The PHEOC needs to define information requirement in the PHEOC to support decision making. This Information is known as essential elements of information (EEI).

10.1. Essential elements of information (EEI):

An Essential Element of Information (EEI) is information that is <u>required for decision-making in a PHEOC in a timely manner across all IMS</u> functions. The level of urgency and the need for action distinguish CIRs from EEIs.

Characteristics of EEIs:

- Include standard data and information items for routine situational awareness.
- Provide context and contribute to analysis.
- Are included in response situation reports.
- Facilitate identifying response activities and materials requirements.

The EEI include:

- All the notifiable diseases / conditions outlined in national ESP
- Resource mapping including human, financial and logistical, and availability

10.2. Critical information requirements (CIRs):

The CIRs include collection, analysis and dissemination of relevant information on public health risks, epidemic investigation and response, needs assessment, overall health sector response, gaps, and performance. It is information that is vital to facilitating situational awareness and decision-making. It is a high-priority subset of EEIs, and is used to trigger immediate or mandatory action.

The list of events below, not limited to, requires prompt reporting by watch team and are monitored on regular basis. This list can be amended to meet information requirement of a PHEOC.

- All PHEs of international concern in accordance with IHR requirements;
- An outbreak that exceeds the threshold defined in the ESU and being monitored by PHEOC
- Any acute PHE that requires assistance from WHO;
- Media interest for any event;
- Accidental death/injury of response personnel deployed in the field;
- Any event affecting installation activities/operations;
- Upward or downward change in grade of a current PHE
- An incident which negatively impacts the facilities, activities, or operations of the PHEOC or MOPH.
- An unusual or serious event reported from the sub-national level.

During activation, incident specific, targeted CIRs are developed to guide information gathering and reporting for the specific event. The PHEOC Manager in consultation with the IM develops the CIRs.

10.3. Information flow:

Coordination of information on PHEs is very crucial. The PHEOC should serve as a hub for reporting public health events and coordination of information. All information on PHEs must systematically flow to the PHEOC. These include information flowing from community, event sites, health facilities (including treatment centres and point of entries) flow from ward level to district, regional and national levels and is received by the PHEOC at the national level.

All communication to and from the PHEOC will be done using the information management system, the PHEOC email or by a phone application (WhatsApp group for example).

10.4. Recording and documentation:

Information related to the PHEOC should be recorded in PHEOC information system. This includes logging activities, tracking HR deployment, tracking of partner's activities, tasking, scheduling etc.

It is extremely important to accurately document actions taken during preparedness and response to emergencies. This will assist in tracking and monitoring the effectiveness of the response activities. Hence, all documents related to an event will be properly archived. The PHEOC needs to have a central repository (preferably online to ease access) where all relevant information on incident is archived. The planning function is responsible for documentation and must ensure proper documentation of all relevant information on response operations

10.5. Analysis / visualization:

The PHEOC will regularly analyse epidemiological data and produce epidemiological situation maps. Trends and maps need to be displayed in the PHEOC.

The planning function is responsible for collecting analysing and visualizing incident information such as human resource deployment, status of materials deployment (what has been deployed when and where) and mapping partners' activities (who is do what, where and when). Trends of the event and situational maps will regularly be produced, displayed and shared.

It is vital for the PHEOC to have key analytical tools such as GIS...

10.6. Displaying information:

The PHEOC needs to define type of information to be displayed in the walls, boards and screens of the PHEOC. <u>Information for display include: PHEOC schedules, maps and trends of events, task tracking, etc. It is vital to post in the PHEOC walls big size (A0 or bigger) maps of the country depicting district, provinces, bordering countries, rivers, health facilities etc. and have a regularly updated GIS with the necessary information relevant to the activities conducted at the PHEOC.</u>

10.7. Information products:

To support informed decision-making, the EOC produces various information products. Table 3 below provides list of information products, frequency of reporting, target audience and responsible person/s for producing the product. SOPs for producing each information product must be included in the handbook. Templates for summary of response to leadership, situation report, and 4Ws is given in annexes 12, 14, and 15 respectively.

Information product /outputs	Source of information	Frequency of report	Report Distributed	Responsible
SPOTREP	PHEOC	To be determined by nature of event	EOC Manager	Secretary
Situation report	PHEOC	To be determined by nature of event	EOC Manager	Secretary
Summary of Event to leadership (max 2 pages)	PHEOC	2 times a week	Policy / leadership group	EOC Manager
Feedback report	PHEOC	Weekly	EOC Manager	Secretary
4W matrix	PHEOC	1 time a week	Policy / leadership group	EOC Manager
Investigation Reports	PHEOC	Depending on occurrence of PHE	Policy / leadership group	EOC Manager
After Action Reports	PHEOC	End of an outbreak	Policy / leadership group	EOC Manager
Annual report	PHEOC	1 time a year	EOC Manager	Secretary

Table 6. List of information products, frequency and reporting

10.8. Partners' activity tracking:

To coordinate response efforts and avoid duplication, it is vital to know who is doing what, where and when. This information is maintained in the PHEOC and regularly updated and shared throughout the course of the response (the PHEOC to determine frequency). The leadership, incident management team and partners will receive this report. A template for tracking partners' activities is given in annex cc The partnership focal person is responsible for ensuring availability of the 4Ws. The PHEOC will maintain data on partners' capacity by area of intervention.

10.9. Meetings and activities schedule:

All planned activities, conferences and meetings (regular and adhoc) will be recorded regularly displayed in the PHEOC. The PHEOC manager ensures updating the information. A scheduling template is given in Annex 15. The schedules need to be displayed (during normal and activation time) to help know what activities are occurring at the PHEOC.

10.10. Emergency contacts:

There will be a 24/7 PHEOC dedicated call line in the PHEOC which can be used as an emergency contact point (the hotline of the MOPH 1214 can be used until the PHEOC is operating properly). It is also important for the PHEOC to have a toll-free line. 2 phone numbers are available 01843120-01829081 in the PHEOC that will be used by individuals to report any event.

The PHEOC maintains a list of contact of key stakeholders, including all levels of health system delivery, government sector, key staff, partner organization representatives, and disaster management. In addition, the PHEOC will maintain contacts of EOCs that the PHEOC connects to including telephone number, address, and video and tele-conferencing detail. Contacts tracking template in provided in Annex 16.

11. Coordination and communication

An effective, accurate and timely communication system is crucial for the control of the response and the PHEOC is the platform for effective communication. The PHEOC establishes <u>internal</u> communication within the Incident Management System (IMS) and <u>external</u> communication with partners, government and the private sector as well as the public.

11.1. Internal:

To establish effective communication within the different sections of the IMS and the field, the following actions shall be taken:

- Regular IMS team coordination meeting:

When the PHEOC is activated, regular IMS team meeting is scheduled. Frequency of the meeting is determined based on the severity and evolution of the incident. This platform facilitates communication between the different sections and serves as a mechanism for sharing of updates for common operational picture, decisions for action and coordination of the emergency response. All IMS staff and partner organizations participates in the meeting. The incident manager chairs this meeting.

Action point form this meeting will be recorded in the task tracker and their implementation monitored against the assigned timeline. The IM and function leads are responsible for assigning responsibilities and monitoring implementation.

Minutes of this meeting are compiled and shared with the team for comments within 24 hours and finalized. The planning team is responsible for preparing minutes and archiving them in a central repository.

<u>The incident manager will report to the leadership</u> issues and challenges that require leadership decision and present them during the leadership meeting.

- Sections coordination meetings: Each section meets regularly (determine frequency) to enhance communication and facilitate coordination of response.
- Strategic communication:
 - 1. Reporting to leadership: the IM prepares leadership update reports <u>regularly</u> and shares with the leadership. The summary includes brief summary of the event, actions taken and next steps, issues and challenges that required high level decision making (maximum two pages). Reporting templates given in Annex 11)
 - 2. Leadership meeting: this meeting is chaired by the minister or designee. It is attended by all respective health directors, IMS personnel, heads of responding partners and other relevant stakeholders. This is a forum for strategic communication among relevant stakeholders where critical decisions are undertaken. The incident manager and section leads will provide situational awareness. Minutes of the meeting are shares regularly to monitor actions and documented properly in the PHEOC repository.
- PHEOC email: a PHEOC mailbox will be created and will serve as a central mail repository. Any communication with the PHEOC and going out of the PHEOC should be done through the PHEOC mailbox. PHEOC staff must have access to and should communicate via the PHEOC email.
- Situation Report: situation reports are produced regularly. An email distribution list needs to be formed containing all taskforce members. The SITREP should be disseminated widely to the IMS

members, all levels of the health system delivery (regions, districts etc.), relevant private and government sectors and partners, and displayed in the PHEOC.

- Communication with the field: it is critical that the field response team maintain regular communication with the PHEOC and information should seamlessly flow to the PHEOC. The PHEOC must have a full operational picture on what is happening in the field. The PHEOC needs to put a mechanism or procedures to establish steady communication with sub-national levels.

<u>At sub-national level</u>, teams need to be equipped with basic communication facility such as telephone (with timeline), internet etc. to enable them communicate and share information.

11.2. External:

The PHEOC communicates externally with relevant partners, government and private sectors as well as the public in-line with government communication policy.

The PHEOC communicates with relevant partners, government and private sectors through a communication unit, which has been set up in advance with designated roles and responsibilities. Crucial preparatory work must be conducted in advance of a public health emergency, standard operating procedures (SOP) with key timelines need to be developed and then followed during a health emergency and then finally the communications outputs need to be monitored and evaluated. There is a crucial need to understand the difference between risk communications and corporate communications.

Communications includes a website or newsletter with a regular situation update, regular press briefings, press releases of actions taken and areas which needs support.

11.2.1. Public communication:

Preparing Communications for a Public Health Emergency

- ✓ Building on the current communications structure setting up a team with clearly defined roles and responsibilities that people can shift into once an emergency strikes.
- ✓ Media mapping and developing the contacts of influential mass media outlets and journalists with the widest reach, scope and appeal
- ✓ Partner mapping and creating a contact list of key communications partners who will participate in the response and devising a communications system
- ✓ Capacity Building and designating key spokespersons and officials who will interact with the media and public. Media training should be provided in advance of an emergency.
- ✓ Developing SOPs for communications during a public health emergency with key timelines.
- ✓ Preparing preliminary statements on different possible emergencies and storing in a 'bank' to ensure that initial information about the incident is swiftly and accurately conveyed to the media and key stakeholders. These would include:
 - Fact sheets
 - Questions and Answers
 - Important telephone numbers and contacts

During the Public Health Emergency

- Posting the daily situation update on the MOPH website and sending out to key media and stakeholder contacts
- Holding regular press briefings on the situation
- Sharing key messages regularly with partners to ensure everyone is speaking with one voice
- Issuing press releases at key moments in the response: announcement of outbreak, scaling up of support and key control measures such as vaccination campaigns and then containment and end of outbreak
- Daily monitoring of news channels, including social media to spot any misinformation or rumours circulating

- Media training of key journalists and outlets to sensitize them to key prevention and other measures
- Working with risk communications health promotion and community engagement colleagues to disseminate key prevention and other measures through radio, social media and other communications channels
- Communicating with the public to inform them about the situation, control measures and risks
- Using social media platforms to disseminate key information and to dispel rumors, as well as to identify issues of concern

After the Public Health Emergency has ended

- Looking at media output in terms of numbers of press releases, briefings, interviews and social media posts
- Analyzing coverage in terms of alignment of messaging
- Archiving useful documents for easy access next time
- Doing rapid lessons learned exercises in regards to procedures and processes, to see what went well and what can be improved next time.
- Continue building partnerships in preparation for the next emergency.

12. Monitoring and evaluation of the PHEOC:

Following a simulation exercise, or after a real incident is declared over and the PHEOC is deactivated; performance of the center must be evaluated. This evaluation will consider facility availability, connectivity with the field and other level of PHEOC operations, availability of information, functionality plans and procedures. Input will be collected from PHEOC staff and other incident management staffs regarding PHEOC support to the response. This process will identify key failures / drawbacks that the PHEOC need to improve to fully support response operation. Results of the evaluation will inform development of corrective action plan to rectify weaknesses. The PHEOC manager should ensure development and implementation of the action plan, and reports to the supervisor on implementation of the plan within timeframe. A PHEOC evaluation form and corrective action plan (CAP) template is provided in Annexes 17 and 18 respectively.

13. Training and exercise

The PHEOC has to develop training program and regularly train both PHEOC permanent and surge staff. These allow development and maintenance of critical set skills, and continuous improvement of PHEOC functions. During normal time, the PHEOC must train its staff and conduct simulation exercise.

Outline:

- Types of training to be conducted
- Persons to be involved in the training (need to be multi-disciplinary / multi-sectoral including response partners)
- Frequency of trainings per year

Trainings are usually followed by exercise. Simulation exercise will be regularly conducted to test skills acquired, functionality of plans and procedures and systems.

Outline:

- Types of exercise to be conducted
- Frequency of exercise per year
- Persons to be involved in the exercise (need to be multi-disciplinary / multi-sectoral including response partners)

The EOC framework outlines six types of exercise for PHEOC. These are:

- Orientation exercise
- Drill

- Table-top exercise (TTX)
- Functional exercise
- Full-scale exercise
- Games

WHO has developed a manual titled "WHO Simulation Exercise Manual" which provides an overview of the different simulation exercise, tools and guidelines. The manual is available at: https://www.who.int/ihr/publications/WHO-WHE-CPI-2017.10/en/.

14. Redundancy / continuity of operations plan

This plan enables the PHEOC to continue carrying out its operations in case of an emergency situation that disrupts the normal working conditions. A permanent PHEOC that is continuously in use should have <u>an alternate location</u> that can be activated with full functionality within minutes for swift resumption of the delivery of critical services affected by a disruption.

a. Physical security

The PHEOC at RHGUH has 4 cameras as follows:

- 1 at the main entrance
- 2 at the main room
- 1 at the IT room

It has also 2 fire extinguishers: 1 at the main room, and 1 at the kitchenette.

Security staff during emergency will be deployed from RHGUH own security staffing. It is important to note that this public hospital has the Lebanese army present at the main entrance and the Emergency entrance, besides its own security staff. Staff of the Ministry of Health (Surveillance, response specially), and other ministries (e.g. MOA staff) are called by either phone or a phone app group.

b. Data security

To avoid loss of data following failure of IT systems, a backup system needs to be put in place. In this section, external double hard disk should be used to save data regularly. This data will be re-installed in case of the IT system failure.

c. Communications system backup

In the event of communication breakdown, a backup communication system should be installed to enable continuity of operations. This will include internet connectivity, satellite phones, radio etc. A direct satellite communication through Thuraya satellite is established at the PHEOC and can be used during breakdown of the usual communication system. Wireless walkie talkie should be also put in place to assume communication between stakeholders.

d. Power backup

All computers and other appliances have to be connected to uninterrupted power Supply (UPS) to protect equipment from power surge and subsequent failure.

Continuous and lengthy power interruption disrupts PHEOC operations. To ensure continuity of operations, it is crucial to have a power generator in the PHEOC. The generators will automatically takeover in events of commercial electricity power cut.

As the PHEOC is located at RHGUH, any electricity power cut will be automatically taken over by the 2 generators of the hospital. A UPS system should be put in place in case these 2 generators are out of service.

e. Continuity of operation

In case of physical infrastructure failure that does not allow use of the PHEOC, the operation of the PHEOC must continue from another location. The PHEOC can continue from the MOPH itself. It is highly recommended that the current alternative EOC at the MOPH DG office should be moved to the

basement of the building for better functionality and security. A virtual PHEOC should be also considered in case of physical infrastructure failure. If the internet connectivity is available, a collaborative application can be used (cloud, WhatsApp...). If there is no internet connection, an alternative walkie talkie system should be available.

15.Logistics support for PHEOC operations

a. Communication equipment

Communicating with Rapid Response Teams (RRT) is very critical during response operations. To enable the RRT to communicate with the PHEOC, they need to be equipped with some of the following communication equipment: laptops, phones, satellite phones, internet access, GPS and other necessary stuff. The Logistics team from PHEOC will be responsible for making available the communication equipment for deploying and conducting training for staff on how to operate the equipment.

b. Staff sustainment and safety

During activation, food and beverages will be served in the PHEOC to sustain staff working extended hours. The logistics section coordinates these services (include administrative procedures to following for ordering and procuring the service). As previously said, the PHEOC has a kitchenette equipped with refrigerator and utensils for storing and serving food and beverages. Toilets are available outside the EOC.

Flash lights, need to be available at the PHEOC (at the secretary room closet). As for the first aid kit that usually needs to be present at the PHEOC (at the secretary room closet) the ER department at RHGUH can be used for any emergencies that might occur specially that this department is less than 100 meters far from the center. However, this kit should be available at the alternative facility at the MOPH main building.

Their locations are indicated in the floor plan (Figure 2).

c. PHEOC supplies and materials

The logistics section is responsible for providing necessary stationery materials and supplies for the PHEOC staff both during normal and activation period. These supplies and materials are already available at the PHEOC at the secretary room closet.

ANNEXES

Annex 1: Sign-in Sheet

The Sign-in sheet is used to keep a record of all persons who utilize the PHEOC. The purpose of this log is to monitor utilization as well as to assist with recreating the event for after action reviews after response operations have concluded. Each individual must sign in and out upon entering and exiting the room.

Date	Name	Program	Sign in time	Sign out time

Annex 2: Regular Facility Check Checklist

Regular equipment check

No.	Equipment	Frequency	Date	Status	Remedy
_					

Annex 3: Roles and Responsibilities

Person/Institution	Roles and Responsibilities
PHEOC Manager	• Supports all PHEOC operations and ensures that the facility and resources required for PHEOC support are provided
	This position works closely with the Policy Group and ensures that proper
	emergency and disaster declarations are enacted and documented
	Ensure PHEOC plans and procedures and monitor implementation
	Staff the PHEOC in collaboration with the Incident Manager
	Responsible for the day-to-day operation of the PHEOC
	 Ensures proper management of information and documentation
	Ensures timely dissemination of the response information
	Responsible for activation and deactivation of the PHEOC
Operation Lead /	• Responsible for all aspects of the outbreak response; including developing event objectives,
Incident Manager	managing all operations, application of resources as well as responsibility for all persons involved
	• sets priorities and defines the organization of the response teams
	Responsible for the overall incident action plan
	Oversees all operations of the outbreak response
	• Establish the appropriate staffing level for the IMS and continuously monitors operational
	effectiveness of the response
	• Ensure availability of end of PHE after action report
	• Responsible for recommending deactivation of the PHEOC when the outbreak is declared
	over
Deputy Incident	Assume the responsibility of Incident Manager when needed
Manager	Perform specific tasks as requested by the Incident Manager
	Implement directives from senior managers
Communication	• Interface with the public, media, other agencies, and stakeholders to provide response
Officer	related information, and updates based on changes in the status of the incident or planned
	event
	Responsible for development of a public information and communication products Out the development of a public information and communication products
	Control and coordinate the release of information to the media
	Prepare press releases and conferences Provides and conferences
	• Develop and release information about the response to the news media, to the response
	 personnel, and to other appropriate agencies and organizations Obtain media information that may be useful to incident planning
	 Obtain friedra information that may be useful to incident planning Provide accurate and timely status reports to the Incident Manager and PHEOC members
	 Provide accurate and timely status reports to the incident islander and timely status reports t
	 Perform a key public information - monitoring role, such as implementing measures for
	rumor control
	• Develop and distribute community information releases through local and national medial
	such as TV, radio, or newspaper, and the use of Social Media networks
Coordination officer	Coordinate with other agencies in the PHEOC that are normally not part of the PHEOC
	staff, such as partners, private and governmental sector or volunteer organizations to make
	sure they are incorporated into PHEOC operations as appropriate
Safety / Security	Ensure the safety, security of the PHEOC and the staff
Officer	
Planning Section lead	• Receive, compile, evaluate, and analyze all outbreak information and providing updated
-	status reports to PHEOC management and field operations
	Develop and communicate operational information
	Predict the probable evolution of events
	Develop objectives, strategies and action plans
	Keep records and ensure proper documentation of the response
	Identify inaccuracies and conflicting reports

	incorporate all relevant data to produce map products, statistical data for reports and/or
anarysi	 Manage database including content, structure, file location, backup system Work with surveillance and epidemiology to map and visualize data
GIS Unit / Data analyst	Collect, collate epidemiological data from regions Manage database including content, structure, file location, backup system.
GIS Unit / Data	Closely link with infection control and social mobilization groups Collect collect enidemiological data from regions
	Prepare and submit cumulative and progress implementation report to the task force Closely link with infection control and social mobilization groups
	Supervise, monitor and evaluate implementation at national and regional levels Propers and submit supplietive and progress implementation report to the task force.
	chains
	Manage outbreak data: analyses data regularly for trends and establishes transmission
	Manage the implementation within the approved budget
	Generate descriptive epidemiology and data visualization
	Collate, analyze, interpret and report summary data (e.g. daily counts of cases/deaths)
	Work with GIS to map key epidemiological parameters
	Oversee capacity building for health workers on surveillance and response
	health facilities and ports of entry
	 Ensure core capacity for surveillance and response is well established at all community,
	 Frepare a standard protocor for contact tracing Follow up all contacts and ensure that a database for all the contacts is in place
	Prepare a standard protocol for contact tracing
	• Ensure that active case finding and contact tracing is done well at both National and regional levels
	Prepare protocols for surveillance at community and health centers Figure that active case finding and centest tracing is done well at both National and
	Plan for the activities, assign responsibilities and implement Propose protocols for symposition and backly contains.
Surveillance Program	Submit the plan and request funds Submit the plan and request funds
a	Clear all financial documents
	sharing arrangements
	Monitor expenditure for the response, including cash flows, and work with partners on cost-
	and /or cash advance on per diem) if needed
	Organize petty cash for staff deployed to the field (for emergency procurement in the field)
	Support funding proposals
	Organize rapid transfer of funds if required
Finance Officer	Mobilize and manage financial resources in collaboration with HQ
	 Update arrival and departure dates of deployment personnel
	• Prepare and maintain a rotation plan for administrative staff beyond normal hours in line with the SOPs
	effectively, rapidly and disseminated accordingly Prepare and maintain a rotation plan for administrative staff beyond normal hours in line
	• Ensure that all memos, letters and other documents related to the outbreaks are handled
	Ensure that printers, copiers and faxes are functional and stocked with paper
	Monitor and maintain office supplies
Officer	Handle all routine correspondence related to the operation
Administrative	Ensure office administration and support
	to ensure implementation of field activity
	 Support PHEOC with prerequisite administrative support and finance resource management
	central level to the points of use
	 Support MOFH on stock management, inventory, replenishment and stock rotation Develop distribution plan in collaboration with partners for all supplies and equipment from
	 systems Support MOPH on stock management, inventory, replenishment and stock rotation
	Manage the procurement of supplies and essential response equipment, communications
	equipment
	• Estimate the needs of response equipment, supplies, transport and communication
Logistics Section lead	Provide logistics support to the PHEOC
	Identifying the technical expertise that is needed during the response
	tactical resources
	resource status information • Prepare and maintain resource status boards, and display current status and location of
	Coordinate with technical areas (sub-committees) and Logistics to capture and centralize recourse status information.

	analysis			
Laboratory expert	Prepare guidelines, policies and manuals			
	Ensure all referral laboratories provides services consistently and accurately			
	 Provide supportive supervision to referral laboratories 			
	Provide advice to case management on treatment guidelines			
	Ensure referral laboratories have supplies			
Central Public Health	Provide technical assistance on testing referral samples			
Laboratory/National-	Provide technical trainings (in service trainings) to lab personnel in the country			
International Referral	Conduct supportive supervision to laboratories			
Laboratory	Conduct supportive supervision to laboratories Mentor laboratories in Microbiology practices and Quality Management system			
	 Provide technical advice on sample management (sample transportation) 			
	Confirm the outbreak			
	Link the confirmed cases with epidemiology			
	Test water samples brought for surveillance.			
	Professionally and effectively perform referral laboratory testing services to produce			
	accurate, reliable, timely and precise results			
Response/Case	Conduct assessment, care coordination, evaluation, and advocacy for services to meet the			
management Unit	impacted populations health needs during a disease outbreak.			
	Acquire and provide to the other subcommittees and the Task Force detailed information			
	regarding the impacted population to establish an intervention and response plan			
	• Work with the community health officers in impacted areas to assist in the development,			
	and implementation of response actions; assure that services provided are specified in the			
	treatment plan(s) and monitor progress toward treatment goals			
	Regularly attend the coordination and the Task Force meetings to provide updates and			
	exchange pertinent information			
	 Review and advice on the requests from regions before processing them for support 			
Social Mobilization	Monitor implementation of social mobilization and health education activities			
Lead	Develop or Revise IEC materials to be used at field level			
	Ensure provision of training to community health workers			
	Conduct house to house awareness on the disease to reduce denial and provide information			
	to help prevent the spread of disease within the community			
	Search for victims and refer to appropriate health care facilities for treatment			
	Spearhead the distribution of response supplies, ORS, etc. at the community level			
	Develop and implement a communications plan to support response activities			
	• Develop and periodically update appropriate "action points" concerning the response for			
	dissemination to all appropriate policy makers			
IT Officer	Ensure PHEOC hardware and software systems are operational and maintained			
	Ensure security of the PHEOC IT system			
	Provide access, response personnel, to relevant PHEOC information			
Human Resource	• Regularly assess and identify the human resource needs for the response in liaison with			
Officer	function leaders			
	Prepare human resource plan and regularly update and monitor			
	Send requests to relevant partners for support			
	Facilitate recruitment of local experts and organize administrative arrangements			
	Regularly update the deployment tracking database			

Annex 4: Grading Template

	GRADING TEMPLATE	
Incident name:		
Done by technical team		

Date:	Chair:				
Time:	Minutes taker:				
	Participants:				
Country name	Emergency Type:				
Country name	Emergency Type.				
Grading level decision	Eg. Grade 1, 2				
Agenda	Grading meeting for				
Situation analysis – summary					
Risk assessment - summary					
Assessment of	Scale (provide assessment for each:				
grading criteria	1) Increased number of cases:				
	2) Geographical spread: Urgency:				
	3) Complexity:				
	4) Capacity:				
Names and contacts of key staff	•				
Immediate actions	•				
AGREED IMMEDIATE NEXT STEPS					
Action	Details	Person responsible	Date		
	1.				
	2.				
	3.				
Decision and approval by leadership Comment:					
Approval: /signature:					

Annex 5: Risk Assessment of Acute Event Template

[EVENT NAME], [EVENT LOCATION]

Date and version of				late, select v	ersion				
Date(s) and version(`						
Overall risk an	nd confid	ence (based	on information	<u>av</u> ailable	at time	of asses	sment)		
	Overa	ıll risk			(Confidenc	e in availabl	e inf	ormation
National	Reg	gional	Global		Na	tional			Global
Choose an item.	Choose	e an item.	Choose an item	1.	se	elect	select		select
Risk statemen	t								
Risk questions	s (assess s	cenario where	e no further inter	ventions a	re imple	mented)			
Distrayastion		Ass	essment	Diale			Dationala		
Risk question		Likelihood	Consequences	Risk			Rationale		
Dotantial mists for	National	select	select	select					
Potential risk for human health?	Regional	select	select	select					
numan nearm:	Global	select	select	select					
Risk of event	National	select	select	select					
spreading?	Regional	select	select	select					
spreading:	Global	select	select	select					
Risk of insufficient control capacities with Regional		select	select	select					
		select	select	select					
available resources? Global		select	select	select					
Add additional risk National		select	select	select					
question if needed;	Regional	select	select	select					
otherwise delete	Global	select	select	select					
3.6		1 11 .1							
<u> </u>	recomme	ended by the	risk assessmer	it team					m: c
Action	Com marriage, h	v. HID Emana	ency Committee for	m considen	tion oc o	DIJEIC by	DC (Amt 12		Timeframe Choose an item
Refer the event f	or review t	by IHR Emerge	ency Committee 10	or considera	ation as a	PHEIC by	DG (Art 12,		Choose an item
	ation of ER	F response me	chanism (IMS) as	urgent nub	lic health	response	s required		Choose an item.
☐ Recommend sett		•	• • • • • • • • • • • • • • • • • • •	urgent pue		response	.s requires		Choose an item
	0 1 0		limit of CFE (no	oradino rec	ommende	ed at this r	oint in time)		Choose an item
**			at RRA (including						Choose an item
* *			redness measures	, mera risk t		11)			Choose an item.
☐ Continue to clos			realiess measures						Choose an item.
			is event, return to	routine acti	vities				Choose an item
		•	oonsible and due dat			ection 2 (Su	pporting inform	ation	
Communication		, , ,		• • •			rr morn		,
Target audience/ channe			Planne	d	Done	First da			st update
Inform ExD and Deputy							oose date		Choose date
Inform relevant RD and	RED (RO)					oose date		Choose date
Inform WR (CO)							oose date		Choose date
Enter event into EMS (RO)					Che	oose date		Choose date
Inform GOARN (HQ)						Che	oose date		Choose date
Share event via Event I	nformation	Site (EIS)				Che	oose date		Choose date
Share event via Disease	Outbreak	News (DON)				Che	oose date		Choose date
Public SitRep						Che	oose date		Choose date
Media talking points (co	oordinate w	vith Communic	cations)			Che	oose date		Choose date
			L L					•	

Other – specify:			Choose date	Choose date							
Supporting information											
Hazard assessment Expand	Hazard assessment Expand										
Exposure assessment Expand											
Context assessment											
Brief context summary Capacities	Vulr	erabilities		_							
Expand	Expa										
•	•										
Immediate actions (not a detailed response List here	plan, state i	f no action red	quired)								
Risk assessment team members List names and roles											
Reference documents used for risk assessm	nent										

List here

Annex 6 - A: Shift Plan During Activation

Date: Day, DD/MM/YYYY

Time in 24 Hrs

Function	Name	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	1	2	3	4	5	6

Annex 7 – B: Transfer of Responsibility During Activation

Date	Name	Function	Sign in time	Sign out time	Major responsibilities to be shifted

Annex 8: incident Action Plan Template

INCIDENT ACTION PLAN (IAP)								
Incident Name and Incident Action Plan Version								
Incident Name:	Operational Period (Date/Time):		IAP Type: Initial Update Final					
Risk level:	PHEOC Activation le	vel:	1 11141					
Functional IMS Position	Name	F	Email	Phone				
	IMS Management Lea	dership ar	nd Staff					
Incident Manager								
Deputy Incident Manager								
	Core IMS Fu	inctions						
Operations Section								
Plans Section								
Logistics Section								
Finance & Administration Section								
	Expanded IMS	Functio	ns					
Liaison Officer								
Safety Officer								
Public Information Officer								
Response Branch Operations								
Current Operations Branch								
Laboratory Branch								
Case Management Branch								
Epidemiology Branch								
Situation	on/Actions for Curre	ent Oper	ational Perio	d				
Background:								
Situation/A	actions for Current C	Operation	nal Period (co	ntinued)				
Current Activities:		-						
	3.6'							
Ministry/Department Response	Mission:							
Response Mode Critical Inform	nation Requirements (Cl	IRs)						
	Planning Ass	_						
(Evidence based f	acts and assumptions in	the conte	ext of developing	ng the plan.)				

Response Objectives (SMART: Specific, Measure, Achievable, Realistic, Timeframe)											
	` .			,							
Response strategies											
	Sections / Functional	l Area Operational Objecti	ves / Evnected	1 raculto							
	Sections / Functional	i Area Operational Objecti	- Expected	1 results							
		Response activities									
No.	Activity / Task	Responsible	Cost	Completion date							
	Triggers That May Increase	the Response Tempo and	or Raise the R	Response Level							
	66 · · · · · · · · · · · · · · · · · ·										
				•							
		•		•							
		•									
		•									
		Return Centralized Respo	onse Operation								
			onse Operation								

Pending Briefings for Operational Period									
Scheduled Meetings for the Operational Period									
Safety and Security Concerns									
Place a visual depiction of the incident location or locations here.									
r face a visual depiction of the incident location of locations here.									
Current Organization									

Annex 9: Job Action Sheet Template

Incident Management System Job Action Sheets

A Job Action Sheet, or JAS, is a tool for defining and performing a specific IMS response functional role. The tasks on the Job Action Sheet can and <u>should be amended to fit the situation</u> by adding or deleting tasks. The Section lead who is issuing the Job Action Sheet should review for applicability and add in writing any incident-specific instructions or changes. The key elements are:

Position Title The name of the emergency response functional role. Note that these generally are not the same as every day, non-emergency job titles. Reports to: The supervisor that has direct authority over the staff. Mission: The purpose of the role, and a brief guiding principle for the responder to keep in mind. Immediate: Tasks that must be completed first upon assuming the role or coming on duty. Intermediate: Tasks to be completed after the immediate tasks are addressed. Extended: Tasks to be completed later or on an ongoing basis during the work shift.

Annex 10: Summary of Incident to Leadership

Incident update to leadership							
As of dd/mm/yyyy, update # xxx							
1. SITUATION UPDATE Very brief summary							
2. ACTIONS UNDERTAKEN Very brief summary in bullet points							
3. ISSUES AND CHALLENGES Highlight major issues and challenges that require leadership attention							
4. NEXT STEPS FOR DECISION Bullet points that require high level decision							
EOC contact: physical address, email, tel							

Annex 11: Situation Report (SITREP) Template

MOPH HEADER

Situational Report (SITREP)								
Outbreak Name	MOPHafaza/Caza/Region							
	affected							
Date & Time of report	Investigation start date							
Prepared by								
Status (activation level)	Activation date	dd/mm/yyyy						
Frequency of report								

1. HIGHLIGHTS

- No. cases reported this week/day. Compare to previous week/day.
- Cumulative case numbers to date e.g. From 'dd month year' until 'dd month year', a total of XXX (SUSPECTED/PROBABLE/CONFIRMED) cases including XX deaths of DISEASE/ SYMDROME have been reported from LOCATION.
- Summary of key challenges

2. BACKGROUND

Brief description of

- How and when the outbreak was recognized
- Description of disease burden in the country
- Overview of initial rapid situation assessment
- Date of outbreak declaration

3. EPIDEMIOLOGY & SURVEILLANCE

Case definition (please include as an annex)

Include definition of suspected, probable and confirmed cases as an annex so it is clear what the data is referring to.

Descriptive epidemiology

Please use graphs, tables and maps for visualisation of the data by time, place and person. Please make sure all figures have clear titles including the population being displayed e.g. n=. Please make sure all axis and legends are clearly labelled. Please ensure sufficient interpretation is provided to aid the reader.

- Number of cases to date: (as a table)
 - o new and cumulative (suspected, probable, confirmed)
 - o deaths: count and CFR%
 - o incidence/attack rate (e.g. number of cases per 100,000 population)
- Case/person characteristics (e.g. age, sex, occupation, risk factors): comment on the most affected groups if present
- Time trends: Epi curve
- Geographical distribution (maps preferable, describe new areas affected)
- Clinical description (e.g. symptoms, duration,no. cases hospitalisations)
- Analysis by exposure
- Source investigations
- State any delays in notification

Contact tracing summary (for events where contact tracing is necessary)

- No. contacts, no. seen, no. traced, no. missing, no. completed follow up, no. become symptomatic
 - o by lowest geographical location possible

4. LABORATORY INVESTIGATIONS

- Brief summary of tests performed and results
- Subtyping (this section may be combined with epidemiology description above)

5. ENVIRONMENTAL ASSESSMENT

• If completed, summarise the findings of any environmental investigations to date (e.g. water testing, vendor inspections, community assessments, etc.)

6. PUBLIC HEALTH ACTION / RESPONSE INTERVENTIONS

Describe the response measures implemented by thematic area and any impact seen. Please add additional pillars if required e.g. vector control, operational research

- 1. COORDINATION
- 2. SURVEILLANCE
- 3. LABORATORY
- 4. CASE MANAGEMENT
- 5. HAZARD CONTAINMENT
- 6. WASH & IPC
- 7. RISK COMMUNICATION, COMMUNITY ENGAGEMENT & SOCIAL MOBILISATION
- 8. LOGISTICS
 - 7. CHALLENGES/GAPS

8. RECOMMENDATIONS & PRIORITY FOLLOW UP ACTIONS

- COORDINATION AND LEADERSHIP
- SURVEILLANCE
- LABORATORY
- CASE MANAGEMENT
- HAZARD CONTAINMENT
- WASH & IPC
- RISK COMMUNICATION, COMMUNITY ENGAGEMENT & SOCIAL MOBILISATION
- LOGISTICS

9. CONCLUSIONS

• Provide concluding remarks on the overall perspective of the event including future outlook Re-echo key messages for urgent attention.

Point of contact of PHEOC and / or the report (the persons to whom questions regarding the report are directed

Annex 12: 4Ws Matrix (Who, What, When, Where)

No			Organizati	Location	n (prov,	Resources	Start	End	Statu
	Ac	tivity	on	distr	ict)	needed	date	date	S
		specif ic							
		ic							
	Are	activit		Provin	Distri				
	a	y		ce	ct				

Annex 13: Meetings and Activities Schedule

Date	Time	Activity	Focal point	Location

Annex 14: Emergency Contact List Template

		Times III Eme	Organi	Locatio	•	
No	Name	Function	zation	n	Tel. No.	Email
110	Traine	1 unouon	Zation	11	01843120	Eman
1	EOC direct line	National PHEOC	МОРН	RHGUH	01843120	
1	Loc direct line	National Theoc	WOIII	KIIGUII	01/830300	
	Dr Walid			Bir	ext	moph@cyberia.net.lb
2	Ammar	DG	МОРН	Hassan	03/302095	wammarmd@gmail.com
	7 Hilling	Head of the Preventive	MOPH	Bir	03/302073	wammarma@gman.com
		Medicine/ CD Response	WOIII	Hassan		
3	Dr Atika Berry	Departments		Tussun	03/976032	aberrymd@gmail.com
	Dr Nada	Бершинения	MOPH	Bir	03/7/0032	userry mu e ginamesini
4	Ghosn	Head of the ESP	1,10111	Hassan	03/214520	esuMOPH@gmail.com
	Dr Joseph	Head of the Care	MOPH	Bir	00,111010	Samuel Control of the
5	Helo	Directorate		Hassan	03/262288	
	Mrs Randa	Head of the PHC	MOPH	Bir		Randa_ham@hotmail.co
6	Hamade	department		Hassan	03/538878	m
	Dr Ghassan	Bekaa MOPHafaza				
7	Zalaet	physician	MOPH	Zahle	03/802020	
	Dr Mahmoud	Baalbeck-Hermel	MOPH	Baalbec		
8	Yaghi	MOPHafaza physician		k-Hermel	03/421297	
		Nabatiyeh MOPHafaza	MOPH	Nabatiye		
9	Dr Ali Ajram	physician		h	03/888418	
	Dr Jalal	South MOPHafaza	MOPH			
10	Haydar	physician		South	03/956048	
	Dr Michel	MOPHafaza physician	MOPH			Michfouri40@hotmail.c
11	Kfouri			Baabda	03/620615	om
12	Dr Jamal Abdo	MOPHafaza physician	MOPH	Tripoli	03/406050	
	Dr Hassan	MOPHafaza physician	MOPH			
13	Chdid			Akkar	03/209340	
	Mr Zahi	Head of the National		Grand		
14	Chahine	EOC	PMC	Serail	03/760480	Zahi.chahine@undp.org
	Mrs Wahida	Head of Nursing		Bir		wahidaghalayinii@yaho
15	Ghalayini	department	RHGUH	Hassan	03/349593	o.com
	Mr Hussein			Bir		Hussein.kataya@hotmail
16	Kataya	ER supervisor	RHGUH	Hassan	76/993103	.com
	Dr Jacques					Jacques.mokhbat@gmail
17	Mokhbat	NCDC Member	LSID	-	03/292915	.com
	Dr					
	AbdelRahman					
18	Bizri	NCDC Member	LSID	-	03/300811	Ab00@ub.edu.lb
4.0	Dr Nada					
19	Melhem	NCDC Member		AUB		melhemn@aub.edu.lb
20	Eng Abeer	Head of the Poultry	MOA	Bir	02/602017	abeersirawan@hotmail.co
20	Sirawan	department	MOA	Hassan	03/603917	m
	Dr Bassel	Head of the Animal	MOA	Bir	70/222627	bbazzal@agriculture.gov.
21	Bazzal	department	MOA	Hassan	70/222687	lb
	Dr Dolla	Head of the Research	TIGT	Museum	02/600067	
22	Sarkis	lab	USJ	square	03/680065	Dolla.sarkis@usj.edu.lb
	Dr George	Head of the	ATID		02/620720	
23	Araj	microbiology lab	AUB	Hamra	03/628730	garaj@aub.edu.lb

Annex 15: PHEOC Evaluation Form

PHEOC Corrective Action Programme After Action Comment Submission Form

Name:			Exercise/Incident:
Role	in	Exercise/incident:	Location
Issue:	Simply	y state the observation of	or problem:
please provide	rovide v why yo	why you think it did no ou think it occurred and	tion or problem in detail. If an expected action did NOT occur, t occur. If an action occurred that was unexpected, please the positive or negative effect it had on the situation. Please be used for follow-up (dates/times, locations, names, etc.):
			assessment of what action(s) should be taken to correct/resolve ed in implementing your recommendation:
	_	to be contacted to prov	vide additional information if necessary? Yes No

Annex 16: Corrective Action Plan (CAP)

Corrective Action Plan						
	Issue#	Issue:				
Characterize	System name:		Date:			
	description:					
Cause & Implication	Root cause					
& ation	Results and implications:					
Corrective action	Immediate corrective		Date:			
	action:					
	Long-term corrective		Date:			
	action:					
	Preventive action:		Date			
Closure	Conclusion:					

GLOSSARY

After action review (AAR): Qualitative review of functional capacity which is conducted after response to public health events

Caza: second subnational level

Concept of operations (CONOPS): describes how and when to engage different branches and levels of government as well as other partners (including international agencies) in the incident management system (IMS). It defines the intended operation of the entire emergency response system.

Critical information requirements (CIRs): The CIRs include collection, analysis and dissemination of relevant information on public health risks, epidemic investigation and response, needs assessment, overall health sector response, gaps, and performance.

Essential elements of information (EEI): An Essential Element of Information (EEI) is information that is required for decision-making in a PHEOC in a timely manner across all IMS functions.

Incident command system (ICS): a standardized approach to the command, control, and coordination of emergency response providing a common hierarchy within which responders from multiple agencies can be effective.

Incident management system (IMS): A common organizational model or framework to all levels of emergency management responsibility within a jurisdiction, from national government to front-line emergency response services. The IMS embraces <u>five functions</u>: Management, Operations, Planning, Logistics and Administration/Finance.

International Health Regulations (2005) IHR: The purpose and scope of the IHR (2005) are "to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade."

MOPHafaza: First subnational level

Public Health Emergency Operation Center (PHEOC): it is a physical location or virtual space in which designated public health emergency management personnel assemble to coordinate operational information and resources for strategic management of public health events and emergencies.

Public Health Emergency of International Concern (PHEIC): a formal declaration by the World Health Organization (WHO) of "an extraordinary event which is determined to constitute a public health risk to other States through the international spread of disease and to potentially require a coordinated international actions.

Rapid Risk Assessment (RRA): it is the combined effort of: identifying and analyzing potential (future) events that may negatively impact individuals, assets, and/or the environment (i.e. risk analysis); and making judgments "on the tolerability of the risk on the basis of a risk analysis" while considering influencing factors (i.e. risk evaluation) in order to ensure necessary response.

Rapid Response Team (RRT): readily deployable team to respond to a public health threat in a timely manner and before it spreads.

REFERENCES

- 1. WHO PHEOC template for African countries
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