**Health Emergencies in Large Populations (H.E.L.P.) Course**

**Outbreak Investigation and Control**

**Time allocated 90 minutes**

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|  **Final Educational Objective: What should participants be able to do at the end of the course** | **Enabling Objectives: The interim steps that build on each other and lead to the final educational objectives**   | **Core issues /reference topics** |
| 1. *Participants are able to* explain the approach to disease outbreak investigations and justify the most adequate control measures in an acute or protracted crisis situation
 | * 1. *Participants are able to* explain the indicators describing an outbreak
 | * Indicators of an outbreak:
	+ Epidemic curve
	+ Attack rate
	+ Reproductive number
	+ Case fatality rate
	+ Incubation period
	+ Duration of infection
	+ Serial interval
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| * 1. *Participants are able to* describe the main steps of an outbreak investigation
 | * Objectives of the investigation
* Steps of outbreak investigation
	+ Relate the investigation to the response
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| * 1. *Participants are able to* describe different types of control measures used in crisis situations
 | * The disease dictates the response
* Rational and objectives of using the different control measures
	+ Case management, isolation, vaccination, contact tracing, alerts follow up, safe burial, control and prevention of infection in hospital and health care settings (CPI), water, sanitation and habitat /public health engineering
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