## POH 106: Pandemic Preparedness Planning

**Module Overview**

Definition of terms; pandemic preparedness, response, hazard, vulnerability, capacity, pandemic risk management, phases of pandemics, response capacity development, tabletop simulations, early warning.

Pandemic preparedness planning cycle and related activities; mitigation, preparedness, prevention, response, and recovery.

Causes and consequences of pandemics; surveillance, direct and indirect impact on people’s health, impacts on health services, the role of agencies in preparedness and response, pandemic risk equation hazard, vulnerability, and capacity for resilience.

Pandemic management tools: rapid needs assessment, camp profiling, emergency response plan, Hazard Capacity Vulnerability Analysis (HCVA); GIS in pandemics, hazard mapping, forecasting, early warning and remote sensing systems. Environmental impact assessment, crisis management and triage

Cross-cutting issues in pandemics: Gender related issues, security and protection, vulnerable populations, environment. Control, command, communication plans and tools during pandemics: SoPs, contact tracing, isolation and evacuation camps, camp coordination, camp management and incident command system.

**Mode of Delivery**

This includes lectures: problem-based learning using interactive tutorials, small group discussions and written assignments, plenary presentations; case studies, experiential learning through independent/reflective study and field visits and placements; and online peer discussions using video clips and conferencing.

**Instructional Materials and/or Equipment**

*Materials:* Lecture notes and slides, video clips, Handouts, case studies, Reference materials (textbooks, journals, policy document-guidelines), institutional placements and field visits

*Equipment:* LCD projectors, laptops, white board, markers and flipcharts, LCD, printers, and internet access for e-resources.

**Core Reference Materials**

1. Jamison, D. T. (2018). Disease control priorities: improving health and reducing poverty. *The Lancet*, *391*(10125), e11-e14.
2. Katz, R. (2011). *Essentials of public health preparedness*. Jones & Bartlett Publishers.
3. Landesman, L. Y., & Weisfuse, I. B. (2013). *Case studies in public health preparedness and response to disasters*. Jones & Bartlett Publishers.
4. Fineberg, H. V. (2014). Pandemic preparedness and response—lessons from the H1N1 influenza of 2009. *New England Journal of Medicine*, *370*(14), 1335-1342.

**Recommended Reference Materials**

1. Federal Emergency Management Agency. (1996) *Guide for All-Hazard Emergency Operations Planning.* Retrieved from https://www.fema.gov/pdf/plan/slg101.pdf
2. Federal Emergency Management Institute (2018) An Introduction to the National Incident Management System. Retrieved from https://training.fema.gov/is/courseoverview.aspx?code=is-700.b&lang=en
3. Centers for Disease Control and Prevention. Public Health Emergency Response Guide for State, Local, and Tribal Public Health Directors. Retrieved from https://www.cdc.gov/orr/readiness/00\_docs/CDC\_PreparednesResponseCapabilities\_October2018\_Final\_508.pdf