## POH 119: INFECTION PREVENTION AND CONTROL IN PANDEMICS

**Module Overview**

Key terms in IPC: infection, antibiotics, antimicrobials, isolation, quarantine, vaccination, prophylaxis, goals of IPC; standard precautions, introduction to infection prevention control; healthcare-associated infections; principles of IPC; standard precautions; healthcare waste management; disinfection, sterilization and aseptic techniques; moments of hand hygiene; personal protective equipment types and indications; post exposure prophylaxis; quarantine and isolation; IPC guidelines, elements and components; administrative controls and policies for IPC; healthcare-associated infection surveillance; rational use of antimicrobials during pandemics, One Health approaches in IPC, IPC in anthrax

**Mode of Delivery**

This includes lectures: problem-based learning using interactive tutorials, small group discussions and written assignments, plenary presentations; case studies, role plays, skits, individual reflection, simulation exercises, 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, whiteboard, markers and flipcharts, LCD, printers, Internet access for e-resources

**Core Reference Materials**

1. World Health Organization. (2019). *Water, sanitation, hygiene and health: a primer for health professionals* (No. WHO/CED/PHE/WSH/19.149). World Health Organization.
2. World Health Organization. (2016). *Guidelines on core components of infection prevention and control programmes at the national and acute health care facility level*. World Health Organization.
3. Mugerwa, H., Byarugaba, D. K., Mpooya, S., Miremba, P., Kalyango, J. N., Karamagi, C., & Katamba, A. (2013). High Prevalence of tuberculosis infection among medical students in Makerere University, Kampala: results of a cross sectional study. *Archives of public health = Archives belges de sante publique*, *71*(1), 7. <https://doi.org/10.1186/0778-7367-71-7>
4. Ogwang M, Paramatti D, Molteni T, Ochola E, Okello TR, Ortiz Salgado JC, Kayanja A, Greco C, Kizza D, Gondoni E, Okot J, Praticò L, Granata V, Filia A, Kellar Ayugi H, Greco D. Prevalence of hospital-associated infections can be decreased effectively in developing countries. J Hosp Infect. 2013 Jun;84(2):138-42. doi: 10.1016/j.jhin.2013.02.016. Epub 2013 May 1. PMID: 23643293.
5. Bagheri Nejad, S., Allegranzi, B., Syed, S. B., Ellis, B., & Pittet, D. (2011). Health-care-associated infection in Africa: a systematic review. *Bulletin of the World Health Organization*, *89*(10), 757–765. https://doi.org/10.2471/BLT.11.088179

**Recommended Reference Materials**

1. Ministry of Health Uganda, (2013). Uganda National Infection Prevention and Control Guidelines. Retrieved from http://library.health.go.ug/sites/default/files/resources/Uganda%20National%20Infection%20Prevention%20and%20Control%20Guidelines%20Dec%202013.pdf
2. Ministry of Health Uganda. (2007). *The National Policy Guidelines on Post Exposure Prophylaxis for HIV,Hepatitis B and Hepatitis C.* Kampala: Ministry of Health.
3. Ministry of Health, Kenya National Infection Prevention and Control Policy for Health Care Services Third Edition Nairobi, Kenya: Government of Kenya, May 2021
4. World Health Organization. (2017, September). *One Health*. Retrieved from <https://www.who.int/news-room/questions-and-answers/item/one-health>
5. World Health Organization. (2021, June). *Supporting Countries with National Action Plan Implemenation*. Retrieved from <https://www.who.int/activities/supporting-countries-with-national-action-plan-implementation/docs/default-source/antimicrobial-resistance/amr-spc-npm/nap-support-tools/nap-amr-sample-template/word/NAP-AMR-Sample-Template-Word-(English))>.
6. Brown, K., & Rasmussen, K. (2019). The Sustainable Development Goals in 2019: People, planet, prosperity in focus. *United Nations Foundation*, *9*, 2019.