

| Strengthening laboratory techniques and surveillance system for global control of HIV and related infectious diseases HIVを含む各種感染症コントロールのための検査技術とサーベイランス強化 | | Continuing |
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| Target Countries : | | |
| Course No. : 201984426-J002 | | |
| No. : 201984426 | | |
| Sector : Health/Other infectious diseases | | |
| Sub-Sector : | | |
| Language : English | | |
| Outline | | |
| HIV/AIDS is one of the major infectious diseases. This course is the only "knowledge co-creation program" that focus on HIV/AIDS, which contains the necessary laboratory techniques for diagnosis, monitoring, and follow-up towards global control of HIV/AIDS. The course will be conducted at National Institute of Infectious Diseases in Japan. Lectures will be given to provide basic knowledge required for the diagnosis and monitoring of HIV/AIDS and other viral infections, and practical hands-on trainings will be held not only to improve laboratory techniques but also to strengthen the whole laboratory management system, including maintenance/quality control of the laboratory, data management, etc. In addition, field visits, reflection, and discussions will help to understand the roles/collaborative relationship between central and regional laboratories involved in the whole infectious disease surveillance system. | | |
| Objective/Outcome | | Target Organization / Group |
| <p>【Objective】 To acquire the knowledge/skills for laboratory diagnosis and monitoring of viral diseases including HIV infection, laboratory management system including data management, etc., and to understand effective surveillance system of Japan. Participants are to disseminate those knowledge in participant's organization.</p> <p>【Outcome】 1. to learn the basic knowledge concerning viral diseases including HIV/AIDS 2. to understand the principles of serodiagnosis and quality control techniques 3. to acquire the basic knowledge of molecular biology, the theoretical background knowledge of PCR technology and its practice 4. to learn monitoring technique of viral diseases including HIV infection monitoring 5. to strengthen laboratory management for improving internal quality control and daily activities and operations 6. to learn the roles of laboratory in infectious diseases surveillance and the cooperations between the central organization and local organizations. 7. to disseminate the acquired knowledge and technique in their organization</p> | | <p>【Target Organization】 National reference laboratories responsible for the testing/diagnosis of various viral infections/other related infectious diseases or the corresponding organizations (can be non-national). Or implementation organization for the infectious disease surveillance.</p> <p>【Target Group】 1. be engaged in laboratory diagnosis of viral diseases including HIV infection or in a position to supervise at the National Laboratory, or corresponding organization. 2. have 4 - 10 years of experience in laboratory diagnosis or infectious disease surveillance.</p> |
| Contents | | |
| Lectures and Discussion: Virology, Care and Treatment of Patients of Viral Diseases, Infectious Diseases Surveillance System in Japan, Treatment Guide for Viral Diseases, Pathology of Viral Diseases, Biosafety, Laboratory Management including 5S-KAIZEN-TQM, Data Management, Quality Control, Diagnosis of Viral Diseases, PCR, Screening of Blood Transfusion, DNA Sequencing, Immunology, Vaccines for Viral Diseases, Molecular Epidemiology for Viral Diseases, Antimicrobial Resistance Practice: Laboratory Set-up, How to use Biological Safety Cabinet, Serodiagnosis of HIV Infection, DNA PCR, Quantitative PCR, RT-PCR, DNA Sequencing, DNA Sequence Analysis, CD-4 T-cell Count, PCR Workshop Site Visits: Private enterprise of the clinical inspection technology, Blood Donation Center, Local institute for public sanitation Others: County Report presentation. Discussion between fellow participants regarding the problems of his/her organization, and Action Plan marketing/presentation. | | Course Period |
| | | 2019/5~2019/6 |
| | | Department in Charge |
| | | Human Development Department |
| | | JICA Center |
| | | JICA Tokyo (Human D. & Ope. C.) |
| | | Cooperation Period |
| | | 2017~2019 |
| Implementing Partner | National Institute of Infectious Diseases | |
| Remarks and Website | Participants are expected to have basic knowledge of computer (Microsoft Word/Excel) as well as be proficient in spoken and written English. | |