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

<table>
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<tr>
<th>Objective</th>
<th>Target Organization / Group</th>
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<td>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.</td>
<td>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.</td>
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#### 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-KAI-ZEN-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.

In this program, we introduce “Active Learning” approach to promote knowledge co-creation among participants.

### 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.