

**The Project for Quality Improvement of Clinical Testing for Microbiology, Hematology and Clinical Chemistry
in Kingdom of Cambodia
under the projects for global growth of medical technologies, systems and services
by Ministry of Health, Labor and Welfare/MoHLW, Japan FY 2019**

Background

- Microbiology: In the 2018 project, In order to introduce standardized microbiology testing methods which were required for proper diagnosis and treatment of infectious diseases and measures against AMR, technical training were provided to the heads of the clinical laboratories who worked for the laboratories which were selected by CAMT. In the training, it was shown that more accurate tests could be realized by using Japanese-made reagents and equipment for microbiology.
- Hematology & Clinical Chemistry: Through the necessary trainings In the 2017 project, 10 Cambodian Quality Control Supervisors in hematology and biochemistry (5 each) were developed. However, any supervisory visits were not conducted to the laboratories with quality problems.
- Specimen management before testing: (common to clinical testing)
The need for technical guidance on specimen management before testing /pre-analysis management (specimen collection methods, transport, storage conditions, and handling, etc.) has emerged.

Project Summary

- Microbiology: The technology acquired last year will be incorporated into the routine microbiology at the trainee's facilities, and a system with the capability of providing better results of tests will be established. In order to foster trainees as instructors of microbiology testing in the country in 2018, we will hold a workshop for those in charge of inspectors at other facilities.
Microbiology testing related companies will be working towards the introduction of testing reagents or equipments to the 2018 trainees' facilities or infrastructures.
- Hematology & Clinical Chemistry: Supervisory visits will be conducted and new Cambodian quality control supervisors (3 each) will be developed.

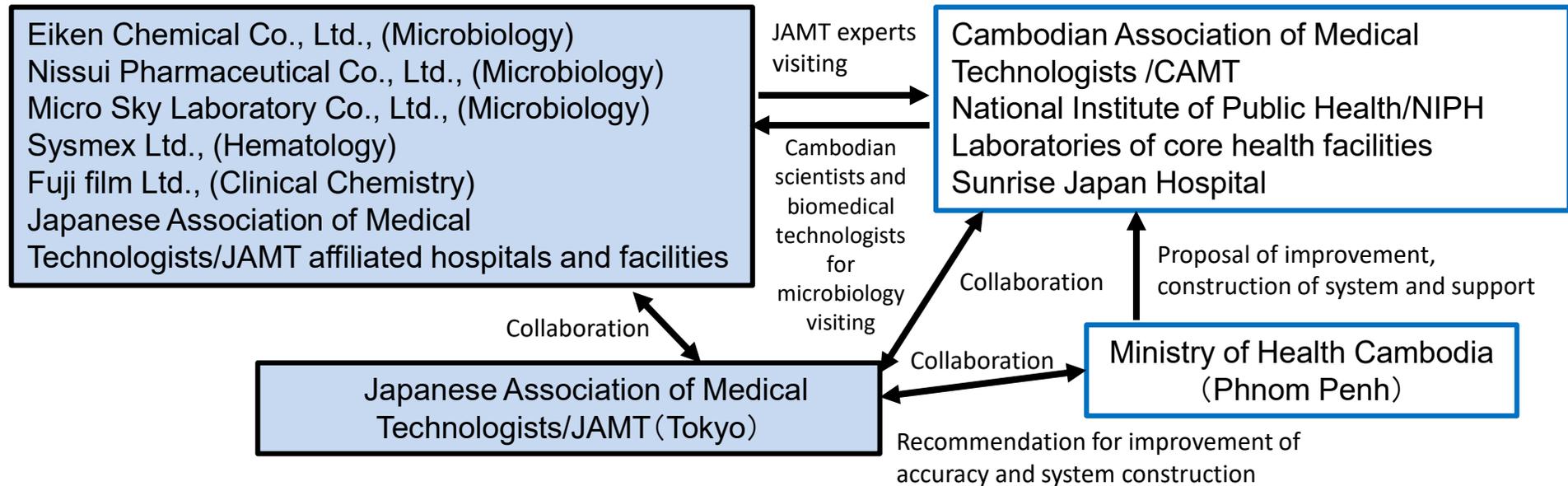
Activities

- To dispatch Japanese experts to Cambodia for necessary lectures, training & workshops and conducting supervisory visit with Cambodian quality control supervisors.
- To invite Cambodian laboratory staff for necessary training on microbiology, hematology and clinical chemistry to Japan.

Expected outcomes

- Microbiology: The quality of the microbiology test at the laboratories will be improved and medical care for infectious diseases & health care can be improved. The awareness of standardized testing methods and Japanese products (reagents and equipment) will be expanded.
 - Hematology & Clinical chemistry: By conducting supervisory visit to the target laboratories, to properly conduct Internal quality control will be taken root and the quality of testing will be improved and then the improvement of health care in Cambodia will be expected.
 - Specimen management before testing: (common to clinical testing)
The better medical services will be provided by the usage of specimens which are properly collected, transported and stored before testing.
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<Tentative Schedule from July 2019 to January 2020>

Microbiology: On-site training (four times) in August, October, December and January in 2020 in Cambodia (3 to 4 Japanese /time)

Hematology, Clinical chemistry and specimen management before testing: On site training including supervisory visit
July (Only Hematology), October and December (1 to 3 Japanese expert /field/time) in Cambodia

- Training for developing new Cambodian quality control supervisors
- Support for conducting supervisory visit by Cambodian quality control supervisors
- Training on specimen management before testing

Training in Japan for new Cambodian quality control supervisors on microbiology, hematology and clinical chemistry

- 3 persons in each field and late September to early October

Microbiology, hematology and clinical chemistry -Three fields joint meeting and seminar in Cambodia

- Joint meeting and seminar (twice: Phnom Penh in Oct. and Siem Reap in Dec.)
- Japanese expert dispatch (3 to 5 / time)